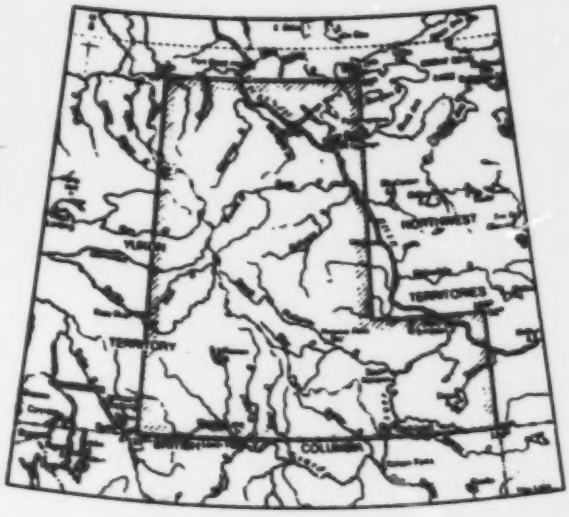

MACKENZIE MOUNTAINS REGION

BASELINE STUDY

PRELIMINARY BIBLIOGRAPHY

Environment Canada — Lands Directorate
Environnement Canada — Direction générale des terres

Study Sponsored by:
Western & Northern Region, Edmonton
N.W.T. Government, Yellowknife
Yukon Territory Government, Whitehorse
Parks Canada, Winnipeg
Department of Indian and Northern Affairs, Ottawa

MACKENZIE MOUNTAINS REGION BASELINE STUDY

ECOLOGICAL LAND CLASSIFICATION AND EVALUATION DIVISION, LANDS DIRECTORATE, ENVIRONMENT CANADA
OTTAWA

MACKENZIE MOUNTAINS REGION BIBLIOGRAPHY

Prepared Under Contract By:

T.D. Kent

31 August 1982
Revised
16 November 1982

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FOREWORD

This bibliography has been prepared primarily to identify literature and maps which would be of use in the classification and evaluation stages of the Mackenzie Mountains Region Baseline Study. As such, references and the literature itself have been evaluated and screen to include mainly items which were felt to be of most use in regional studies, etc. within the overall study area; numerous site-specific stratigraphy, geochemistry, mineralogical, etc. papers have not been included, nor have many papers which were considered too generalized for the scope of this study. These references are screened however, being retained in Ottawa.

The bibliography will be expanded as relevant references become identified; thus, the bibliography is now considered preliminary.

Copies of this bibliography can be obtained from: Ecological Land Classification and Evaluation Division, Lands Directorate, Environment Canada, 20th floor, Place Vincent Massey, Ottawa, Ontario K1A 0E7.

Gary Ironside
ELCE Division

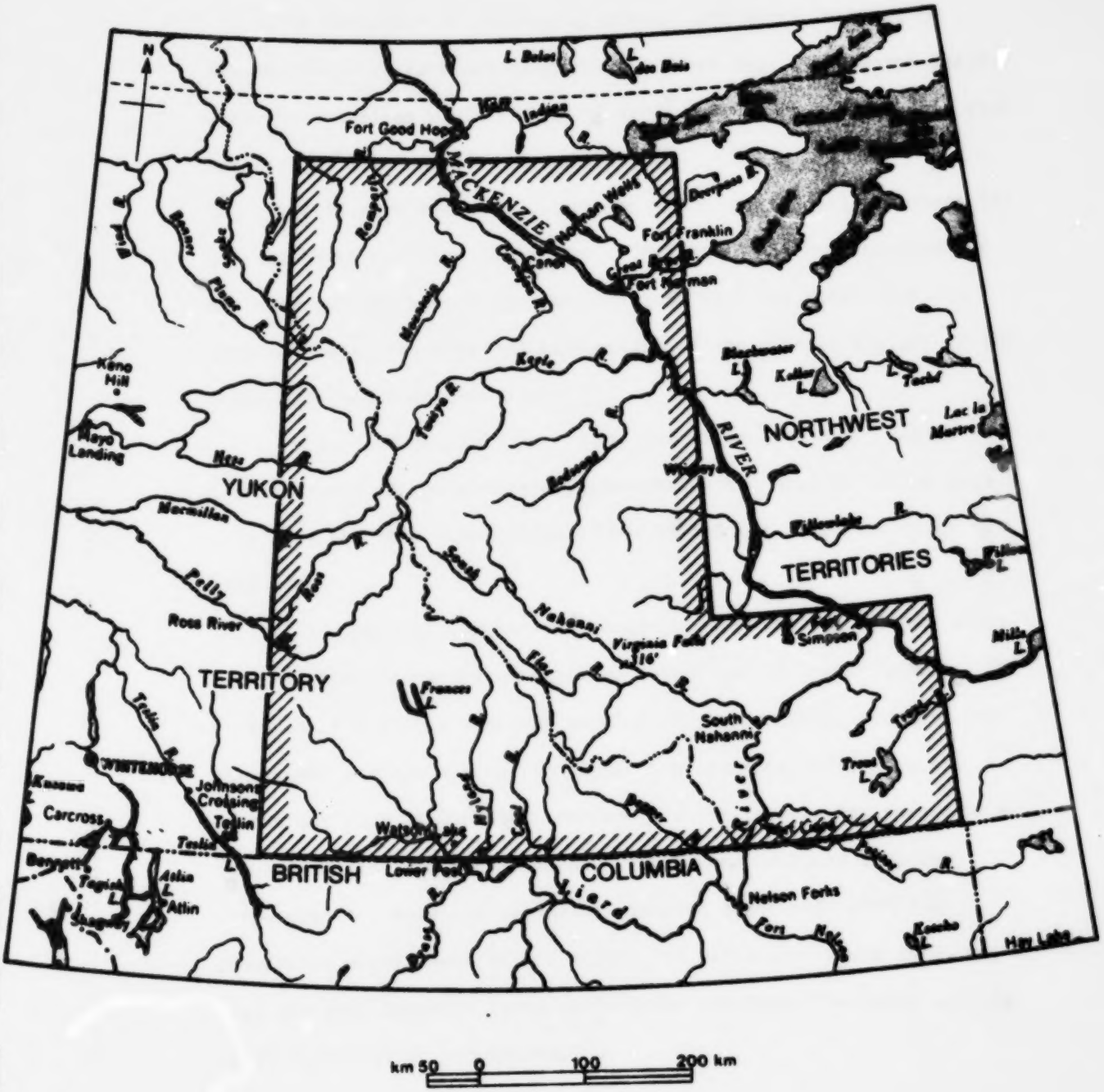
INTRODUCTION

This document represents the preliminary version of the bibliography compiled for the Mackenzie Mountains Region Baseline Study. Four computerized data bases, accessed through Environment Canada's facilities in Hull, have been searched. These include GEOREF, ENVIRONMENT, ARCTIC ABSTRACT and YUKON BIBLIOGRAPHY. Key words used in the searches were generally geographic place names including those of mountain ranges, lakes, rivers, major roads and communities within the study area. (Appendix A.)

In addition to the computerized data bases, Open Files at the Geological Survey of Canada have been reviewed for appropriate documents. Parks Canada bibliographies dealing with portions of the study area, as well as the Department of Indian and Northern Affairs library have been searched for pertinent material. Contacts have been established with the major mining companies operating within the study area in an effort to obtain copies of their research dealing with environmental impacts.

References from these and other sources (including bibliographic references cited in papers reviewed by the consultant) have been arranged according to broad subject categories. These include environmental impact, geomorphology, geology, surficial geology, wildlife and vegetation. Abstracts are included for those papers reviewed by the consultant and were, in the majority of cases, taken from the author's own work. Where possible, the geographical area covered by each reference is indicated by the National Topographic Series map number (scale; 1:250,000).

MACKENZIE MOUNTAINS REGION BASELINE STUDY AREA



As a preface to each of the above mentioned sections an index map is presented which shows the area of coverage for each section.

References by Subject Category

As indicated in the foregoing, the bibliography has been arranged according to broad subject categories. A group by group description of the references follows:

(A) Environmental Impact: Papers dealing with the environmental impacts within the study area are limited in both number and in scope. In general, these documents may be divided into two categories; site-specific environmental impact statements relating to specific development proposals which are, for the most part, mining oriented and; more general documents dealing with the long term effects of man-induced disturbances on the area's ecology. The scope of the reports are generally limited to a specific phase of a development project, such as the construction of a road or airstrip.

(B) Geomorphology: Geomorphological investigation within the study area has been concentrated in three major categories: mass movement processes, karst geomorphology, and glaciation. The work involving mass movement has been concentrated primarily in the area of rock avalanches, streaming mechanisms and the movement of rock glaciers. While these studies point to potential development hazards, their site-specific nature precludes extrapolation on a regional basis.

The discovery of nationally significant karst features in Nahanni National Park has stimulated a great deal of research dealing with the processes of formation of karst topography. Once again this material is site-specific in nature.

Little work has been undertaken which specifically examines the glacial history of the study area. That which has been carried out has been concentrated in Nahanni National Park and other than one regional paper, no detailed examination of the glacial history of the study area has been conducted.

Other geomorphological work undertaken within the region includes site-specific fluvial geomorphological studies in the Watson Lake area and some examination of the permafrost characteristics in that area.

(C) Geology: Geological research undertaken within the study area has been concentrated into two categories of investigation. The first which includes regional mapping of stratigraphy, economic and structural geology was carried under the auspices of large scale operations such as Operation Norman in which several map sheets were surveyed during one field season. The second category involves site-specific, detailed geological mapping associated with the commercial development of ore bodies, in particular those tungsten, lead and zinc deposits found at Tungsten and Macmillan Pass, and the Lened and Cadillac properties.

(D) Surficial Geology: Much of the surficial geological mapping in the study area has been carried out on a broad regional basis. Many of the reports cover more than two map sheets. Much of the mapping is still in its preliminary stages, filed with the Geological Survey of Canada in the Open File section of their map library. Additional surficial mapping is presently underway for 105G, H and I.

(E) Wildlife: Detailed investigation of wildlife populations contained within and adjacent to the study area is a relatively recent development which was instigated as a result of proposals related to pipeline construction along the Mackenzie River. As a result, a great deal of this work has been devoted to the examination of wildlife and to the investigation of potential development impacts upon their habitats, along specific routes or corridors proposed for pipeline construction. While very little general wildlife census work has been carried out in the study area, several papers have been published, most notably by Gill and Kershaw, which present baseline wildlife information in the Macmillan Pass Area.

(F) Vegetation: Much of the work carried out in this field relating to the Mackenzie Mountain Region has taken the form of vegetation inventories which cover relatively large portions of the study area. Very little work has been conducted which specifically identifies rare or unique species. No references were found which deal specifically with development impacts on vegetation, or which identify the relative sensitivity of different types of vegetation within the study area.

Conclusions

Spatially, the earth science category including the geological, geomorphological and surficial geology sections of this bibliography provides the most complete coverage of the study area. There is some type of earth science information available for each map sheet. On the other hand, life science information dealing with wildlife and vegetation is spatially scattered and very often site-specific concentrated in proposed development areas. Papers dealing with the specific concerns of development proposals are, by necessity, confined to relatively small areas. Extrapolation of the information contained in these studies from a site-specific area to a regional basis is difficult and in most cases relatively unreliable.

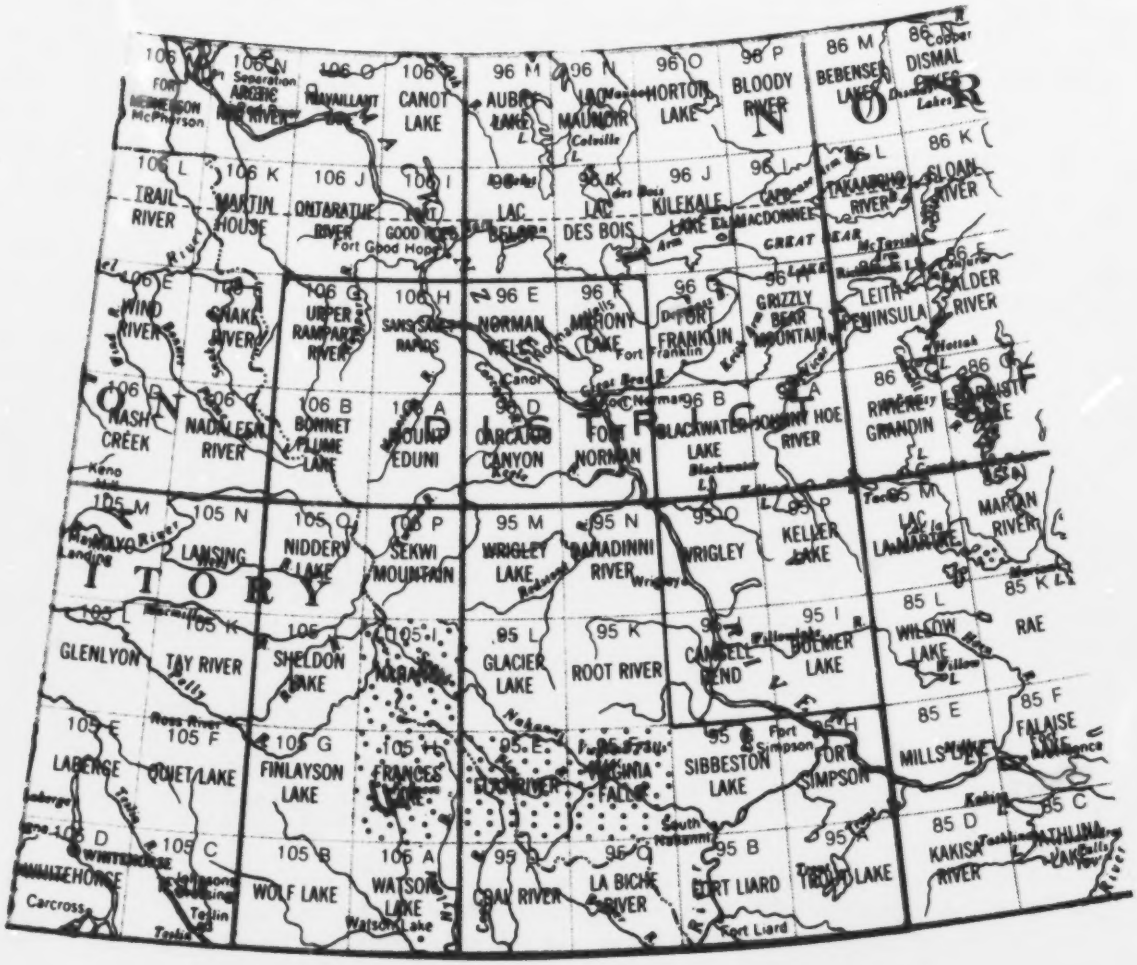
Computer Search - Key Words

Mackenzie Mountains
Macmillan Pass Area
Mining
Watson Lake Area
Keele Peak
Itsi Range
Amax
Bonnet Plume Range
Howard's Pass Area
Wolf Lake Area
Niddery Lake Area
Cassiar Mountains
Hyland River
Tungsten
Thundercloud Range
Selwyn Mountains
Broken Skull River
Vegetation
Wildlife
Soils
Geomorphology
Geology
Cirque Lake Area
Finlayson Lake Area
Frances Lake Area
Francis Lake Area
Sheldon Lake Area
Hess Mountains
Pelly River
Campbell Range
Logan Range
Northwest Territories
Tsichu River

The computer search was carried out by Ann Braden of the Library of Environment Canada.

SECTION A

ENVIRONMENTAL IMPACT


NORTHWEST TERRITORIES
106 N
106 O
106 P
CANOL LAKE
96 M
96 N
96 O
96 P
HORTON LAKE
BLOODY RIVER
86 M
86 N
DISMAL LAKES
106 L
106 K
106 J
106 I
TRAIL RIVER
MARTIN HOUSE
ONTARATUE RIVER
LAC BELOT
LAC DES BOIS
96 J
96 L
KILEKALE LAKE
MACDONNEL LAKE
TAKAANDHO RIVER
86 L
86 K
SLOAN RIVER
106 E
106 F
106 G
106 H
WIND RIVER
SNAKE RIVER
UPPER RAMPART RIVER
SANS SAULT RAPIDS
96 E
96 F
NORMAN WELLS
MOUNT MACKENZIE
96 G
96 H
FORT FRANKLIN
GRIZZLY BEAR MOUNTAIN
LEITH PENINSULA
86 E
86 F
CALDER RIVER
106 D
106 C
106 B
106 A
NASH CREEK
NAHANNI RIVER
BONNET PLUME LAKE
MOUNT EDUNI
96 D
96 C
96 B
96 A
CARCAJOU CANYON
FORT NORMAN
BLACKWATER LAKE
JOHNNY HOE RIVER
RIVIERE GRANDIN
86 D
86 C
86 B
86 A
105 M
105 N
105 O
105 P
LANSING
NIDDERY LAKE
SEKWI MOUNTAIN
95 M
95 N
95 O
95 P
WRIGLEY LAKE
MACKENZIE RIVER
WRIGLEY
KELLER LAKE
LAC LA MARTRE
MARTIN RIVER
85 L
85 K
WILLOW LAKE
RAE
105 L
105 K
105 J
105 I
GLENLYON
TAY RIVER
SHELDON LAKE
NORMAN WELLS
95 L
95 K
95 J
95 I
GLACIER LAKE
ROOT RIVER
CAMPBELL BEND
BOLMER LAKE
105 E
105 F
105 G
105 H
LABERGE
OGHETLAKE
FINLAYSON LAKE
FRANCES LAKE
95 E
95 F
95 G
95 H
VIRGINIA FALLS
SIBBESTON LAKE
FORT SIMPSON
MILLS LAKE
85 E
85 F
FALAISE LAKE
105 D
105 C
105 B
105 A
WHITEHORSE
Carcross
WOLF LAKE
WATSON LAKE
95 D
95 C
95 B
95 A
CRAIG RIVER
LA BICHE RIVER
FORT LIARD
TROUT LAKE
85 D
85 C
KAKISA RIVER
NAHLINNI LAKE

AMAX Northwest Mining Company Ltd., Environmental report on the Macmillan Tungsten property. AMAX INC., Environmental Services Group, Denver, 1976.

Canada. Land Use Information Series. Department of the Environment and the Department of Indian and Northern Affairs, 1974.

Abstract: This document is composed of a series of 1:250,000 scale maps describing the wildlife potential, hunting and trapping areas, game management zones, fish resources, historical sites, recreation and tourism capabilities, outdoor recreation potential and proposed reserve sites related to the International Biological Programme.

NTS Coverage: 1:250,000 mapping for the study area.

Crampton, C.B., M.R. Ross. Landscape Survey and Terrain Susceptibility to damage for the Southern and central Mackenzie River Valley with special reference to the depth of the active layer, slope and texture. Agriculture Canada, Soil Research Institute, 1973.

Abstract:

NTS Coverage: 106H, 96E, 96F, 96D, 96B, 95N, 95O, 95K, 95A, 95B, 95G, 95H.

Donihee, J., Preliminary review of potential development and land use conflicts in southwestern Mackenzie Mountains, Northwest Territories. Department of Renewable Resources, Government of the Northwest Territories, unpublished report, 1980.

Abstract:

NTS Coverage:

Envirocon Ltd., Environmental overview, Howard's Pass access road, Prepared for Canex Placer Ltd., Vancouver, 1976.

Abstract: The scope of this study was to evaluate the proposed access routes and to identify any major resource concerns associated with each. The report provides that evaluation, with emphasis on the preferred route, and also presents recommendations with respect to opportunities for minimizing environmental disturbances.

NTS Coverage: Northeast portion of 105H and Southeast portion of 105I.

Foothills Pipelines (South Yukon) Ltd., Environmental Impact Statement for the Alaska Highway Gas Pipeline Project, Calgary, Alberta, 1979.

Gill, D., Environmental report on the proposed Camp Mile 222 Airstrip site, Canol Road, Northwest Territories. AMAX Environmental Services Inc., Denver, 1979.

Keith, R.F., A. Ker, R. Vles., Mining in the North. Northern Perspectives 9(2), pp. 1-7, 1981.

Abstract:

NTS Coverage:

Ker, Priestman and Associates Ltd., Preliminary Environmental Evaluation for Winter Access Road for Cadillac Explorations Ltd., Prairie Creek Project, N.W.T., 1980.

Abstract: This report presents a preliminary environmental evaluation of a proposed winter road from Nahanni Butte to the Prairie Creek mine site. Geotechnical, vegetation, aquatic, wildlife, terrain, socio- economic, hydrologic and climate information is presented.

NTS Coverage: Prairie Creek, Liard River - 95F.

Ker, Priestman and Associates Ltd., Preliminary Environmental Evaluation for Mine, Mill and Camp, Cadillac Explorations Ltd., Prairie Creek Project, N.W.T., 1980.

Abstract: This report outlines the Prairie Creek Mining project as proposed by Cadillac Explorations Ltd. The environmental setting and potential impacts of the mine, mill and camp development are examined.

NTS Coverage: Prairie Creek; site specific, 95F.

Kershaw, G.P., Long term adjustment to man-induced disturbances in subarctic alpine tundra. The Land Project, 1942-1945, Northwest Territories. Ph.D. thesis, University of Alberta, Edmonton, Alberta. IN PREPARATION.

Abstract:

NTS Coverage:

Kershaw, G.P., D. Gill., The effect of man-induced disturbances on the winter ecology of deciduous shrub tundra, Selwyn Mountains, N.W.T. Annual Meeting of the Canadian Association of Geographers, Victoria, May 28-31, 1979.

Kershaw, G.P., L.J. Kershaw., Some long term environmental consequences of an abandonned crude oil pipeline in the Northwest Territories, Canada, Department of Geography, University of Alberta, Edmonton, no date.

L.G.L. Ltd., An Appraisal of Methods along the proposed Mackenzie Highway, Mile 297-931, and an investigation of some possible Ecological Effects of Northern Road Construction. Department of Public Works, Edmonton, 1973.

Moore, James W., M.J. Hardin, G.A. Sergy., The Effect of Metal Mines on aquatic ecosystems in the Northwest Territories. Canada Tungsten Mining Corporation Ltd., 1978.

Oswald, E.T., J.P. Senyk. Ecoregions of Yukon Territory. Canadian Forestry Service, Pacific Forest Research Centre, 1977.

Abstract:

NTS Coverage:

Scotter, G.W., N.M. Simmons, S.C. Zoltai., Ecology of the South Nahanni and Flat River areas, unpublished report, Canadian Wildlife Service, Edmonton, 1971.

Thiberge, J.B., J.G. Nelson, T. Fenge. Environmentally Significant Areas of the Yukon Territory. Canadian Arctic Resources Committee. 1974.

Abstract: Provides descriptions of the environmentally significant areas of the Yukon Territory based on Yukon Ecoregions.

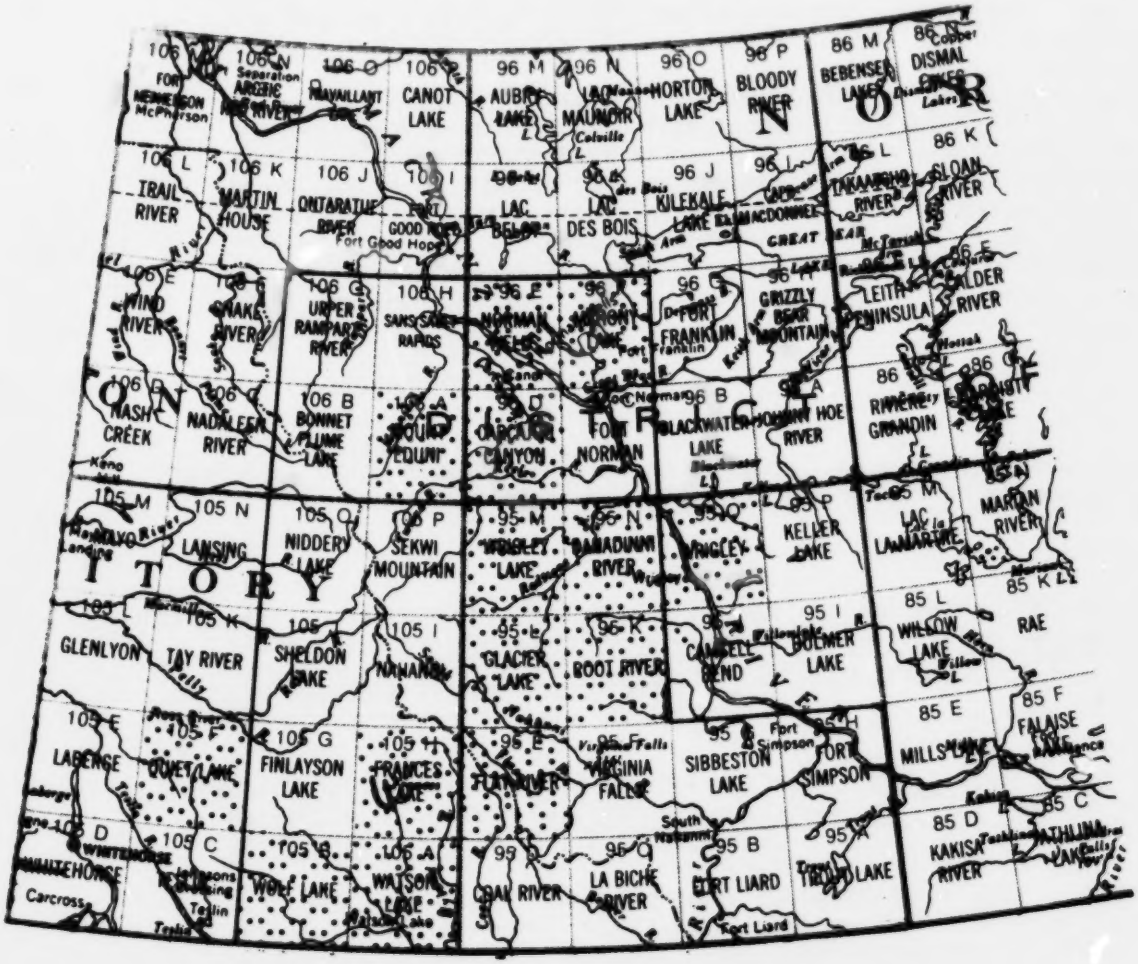
NTS Coverage: Yukon area of the study region.

Westlake, D.W.D., F.D. Cook, G.P. Kershaw., Terrestrial Biodegradation of Oil North of Latitude 60°, Department of Microbiology, Soil Science and Geography, University of Alberta, Edmonton, no date.

SECTION B

GEOMORPHOLOGY - MASS MOVEMENT

GEOMORPHOLOGY - mass movement



Butler, D.R., Dendrogeomorphological analysis of flooding and mass movement, Ram Plateau, Mackenzie Mountains, Northwest Territories. Canadian Geographic, 23(1) pp. 62-65, 1979.

Bultev, D.R., Mass-wasting processes and landforms, Ram Plateau, MackenzieMountains, Northwest Territories, Canada. Nebraska Academy of Sciences and affiliated societies. Lincoln, Nebraska, Apr. 14-15. 1978. (proceedings 88)

Chatwin, S.C., N.W. Rutter, Upper Mackenzie River Valley. Third International Conference on Permafrost, Edmonton, Alberta, July 10-13, 1978 no.2, (Field trip guidebook).

Abstract: This paper covers the geological and glacial histories of the Nahanni, Wrigley, Norman Wells map sheets (in addition to others not related to the study area). Emphasis is placed on ground ice occurrences and associated problems.

NTS Coverage: 96E, 95O and 105I.

CRAMPTON, C.B., Linear-patterned slopes in the discontinuous permafrost zone of the central Mackenzie River Valley. Arctic 27(4), pp. 265-272, 1974.

Abstract: This paper examines the character, distribution and orientation of gently inclined linear slopes most of which have permafrost 4-10 cm from the surface, an indication that cryoturbation was at one time operative in the active layer.

NTS Coverage: The area covered by this report includes portions of 106A, 96E, 96F, 96D, 95M, 95N, 95L and 95K.

Eisbacher, G.H., Cliff collapse and rock avalanches (sturztroms) in the Mackenzie Mountains, Northwestern Canada. Canadian Geotechnical Journal, 16(2) pp. 309-334, 1979.

Abstract: Cliff collapse and the resulting rock avalanches have occurred widely in carbonate formations of the Mackenzie Mountains. Some of the rock slides are close to a Holocene fault scarp and may be due to past earthquake activity. The Mackenzie Mountains are located within an intraplate seismic zone...at several locations at least two generations of land slide material can be recognized. All major rock slides originated by failure above inclined bedding plane surfaces ranging in dip from 13°-40°.

NTS Coverage:

Eisbacher, G.H., Observations on the streaming mechanism of large rock slides, northern cordillera. Canadian Geological Survey Paper 78-1A, pp. 49-52, 1978.

Eisbacher, G.H., Debris streams (sturzstroms) in the Mackenzie Mountains. Geological Society of America, Cordilleran Section, 73rd annual meeting, Sacramento, California, April 5-7, 1977. Programs 9:4 417 p.

Eisbacher, G.H., Rockslides in the Mackenzie Mountains, District of Mackenzie. Canadian Geological Survey Paper 77 -1A : Report of Activities, Part A. pp. 235-241, 1977.

Abstract: The author examined three rock slides of post glacial origin in the Mackenzie Mountains. These three examples of rock slides all exhibited a streaming behaviour of the debris after the initial collapse of the rock faces. With increased mining activities in the area attention must be paid to the rock slide hazard.

NTS Coverage: Rock slides studied are located at

131°08',	64°17,
127°50	63°05'
127°15	62°15

Goodfellow, W.D., Regional stream sediment and water geochimistry of the Mahanni map area (105 I), Yukon and Northwest Territories. (National Geochemical Reconnaissance Map NGR 51-1981), Geological Survey of Canada. Open File 868, 1981.

Abstract: Geochemical results from stream sediment and water samples collectd at an average density of one sample per 12km^2 over approximately 11,830 km^2. Stream sediments analysis was carried out for each of the following elements Zn, Cu, Pb, Ni, Co, Ag, Mn, Fe, Mo, Be, V, W, U, F, As, Hg, Sb, Cd, P20 and for loss of ignition. Water samples were examined for U, F, Ph, Zn, Mn, Cl, Ca, Mg, Na, K, NO3, PO4, So4 and alkalinity.

NTS Coverage: 105 I.

Jackson, L.E. Jr., G.A. MacDonald, Movement of an ice-cored rock glacier, Tungsten, N.W.T. Canada 1963-1980. Arctic 33(4) pp. 842-847, 1980.

Abstract: This paper describes the movement of an ice-cored rock glacier which occurred over a 17 year period. The author discovered that movement was minimal (approximately 1m) and that the flow was glacier like.

NTS Coverage: This is a site specific study covering one location on 105H.

Kershaw, G.P., Rock glaciers in the Cirque Lake area of the Yukon - Northwest Territories. Albertan Geographer 14, pp. 61-88, 1978.

Abstract: Provides a morphological description of 41 rock glaciers in the Cirque Lake area from studies undertaken in 1973 and 1974. Lobate rock glaciers comprise 82.9% of those studied, while tongue shaped and spatulate are 14.6% and 2.5% respectively, which is representative of much of the Selwyn and Hess Mountains in the Yukon and Northwest Territories.

NTS Coverage: 105P

Kershaw, G.P., D. Gill., Growth and decay of palsas and peat plateaus in the Macmillan Pass-Tsichu River area, Northwest Territories, Canada. Canadian Journal of Earth Sciences 16, pp. 1262-1274, 1979.

Abstract: This paper discusses the nature of growth and decay of palsas and peat plateaus in the Macmillan Pass-Tsichu River area. Palsas-peat plateau complexes cover 0.7% of the area and are found in bog and fen areas at elevations from 1285-1690m...Shrinkage or total decay of palsas and peat plateaus has occurred over the past 34 years; in some areas up to 100%. The areal extent of some peat plateaus has also been reduced.

NTS Coverage: This paper is a site specific study between Macmillan Pass and Camp Mile 222 on the Canol Road - 105P.

Kershaw, G.P., The Periglacial Environment and its limitations to development, the Mactung Case Study, Northwest Territories-Yukon Territory; unpublished M.A. thesis, University of Waterloo, Faculty of Environmental Studies, 1976.

Abstract: This document is a comprehensive description of the vegetation, geology, geomorphology and the wildlife in the Macmillian Pass area of the Northwest Territories. It also examines the impact of development.

NTS Coverage: 105P.

Kesik, A.B., G.P. Kershaw, The assessment of landforms and vegetation for the development of the Mactung Research Area, N.W.T., Department of Geography, University of Waterloo. no date.

Kurfurst, P.J., R.M. Issacs, J.A. Junter, W.J. Scott, Permafrost studies in the Norman Wells Region, Northwest Territories. In Symposium on the Geology of the Canadian Arctic, Proceedings pp. 277-299. Geological Association of Canada, Canadian Society of Petroleum Geologists, 1972.

Murray J.M. et al., Hydrologic and ecological studies related to land use near Watson Lake, Yukon Territory. Department of Indian Affairs and Northern Development. ALUR 71-72-03 132p, 1971.

Abstract: Results of field work conducted in 1971 and further refinement of the Land Classification Program. Late thawing seasonal ground frost is related to many potential land use problems. Ecological data collected provides detailed vegetative descriptions of specific study sites.

NTS Coverage: Detailed mapping of surficial geology and soils at an approximate scale of 1:63,000 for the immediate area of Watson Lake.

Lavkulich, L.M., Physical environment studies, Watson Lake, Yukon Territory, Department of Indian and Northern Affairs, ALUR 71-72-01., 153p, 1972.

Abstract: This report presents the results of a reconnaissance survey of four watersheds in the Watson Lake area with respect to soils, vegetation, water quality and soil engineering qualities.

NTS Coverage: Covers a portion of 105A and 105B. The report includes a soil map of the Watson Lake Area (a poor resolution photo-mosaic).

Parker, M.L., L.A. Jozsa, Dendrochronological investigations along the Mackenzie, Liard and South Nahanni Rivers, N.W.T. Part 1: using tree damage to date landslides, ice jamming and flooding. Canada Task Force, Northern Oil Development, Environment Social Committee Report 73-3, pp. 313-464, 1973.

Smith, H.T.U., Photogeologic study of periglacial talus glaciers in Northwestern Canada. Geographiska Annaler 55A:2, pp. 69-84, 1973.

Abstract: The author presents a description of fossilized talus glaciers, the size of which are interpreted as being the ultimate result of two episodes of formation, one pre-Hypsithermal and one Neoglacial. Stabilization is assigned to the ensuing Neoglacial time until interrupted in latest Neoglacial time by renewal of talus building which is still in progress, relfecting another climatic shift toward conditions more favourable for frost weathering.

NTS Coverage: Norman Wells (96SW and 96SE) at 1:500,000 and Wernecke Mountains (106SW and 106SE) at the same scale.

Strang, R.M., Studies of the Vegetation, Landforms and Permafrost in the Mackenzie Valley; some case histories of disturbance. Environment Social Comm. North Pipelines Report 73-14, 49p, 1973.

Vallejo, L.E., Cliff collapse and rock avalanches (sturzstroms) in the Mackenzie Mountains, Northwestern Canada, Canadian Geotechnical Journal 17(1), pp. 149-152, 1980.

Abstract: This paper is a discussion of G.H. Eisbacher's 1979 paper entitled "Cliff collapse and rock avalanches (Sturzstroms) in the Mackenzie Mountains, Northwestern Canada", published in the Canadian Geotechnical Journal.

NTS Coverage:

Verschuren, J.P., M.E. Quazi, Classification of stream flow and fluvial geomorphology characteristics near Watson Lake, Yukon Territory. Department of Indian and Northern Affairs, ALUR 71-72-03, 164p, 1974.

Abstract: Presents a progress report on research conducted by the University of Alberta, Department of Civil Engineering. In data for 14 watersheds, the physical characteristics of each are presented and discussed.

NTS Coverage: This report covers parts of map sheets 105I, 105F, 105B and 105A.

Verschuren, J.P., R.H. Cooper., Final report on Land Use Research. Department of Indian and Northern Affairs, 1971.

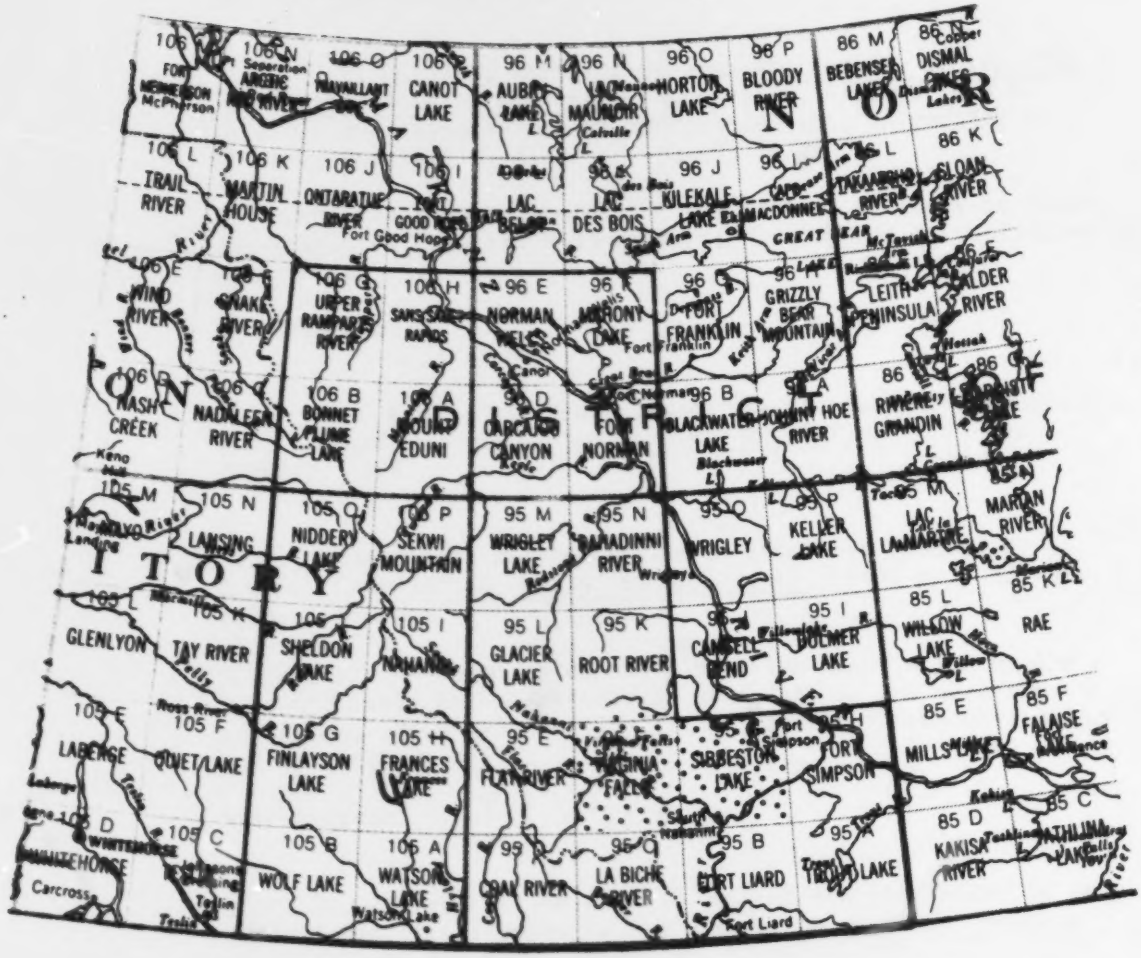
Abstract: Investigates effects of various land use operations on hydrology and fluvial geomorphology.

NTS Coverage: This report is site specific, dealing with a meander on the Frances Lake map sheet, 105H.

SECTION C

GEOMORPHOLOGY - KARST

GEOMORPHOLOGY – karst



Brooks, G.A., Surface and groundwater hydrology of a highly karsted sub-arctic carbonate terrain in northern Canada. In Karst Hydrogeology (F.L. Doyle, chai person) published by Geological Survey of Alberta, 41p, 1975.

Brooks, G.A., D.C. Ford, Nahanni Karst: unique Northern Landscape Canadian Geography Journal, 88(6) pp. 36-43, 1974.

Abstract: This paper gives a detailed description of the formation of the Nahanni Karst features. Photographs which show the general surroundings and topography are also presented.

NTS Coverage: Covers a portion of 95F and 95G.

Brooks, G.A., D.C. Ford, The Nahanni North Karst; a question mark of the validity of the morphoclimatic concept of karst development. Congress International Speleological Proceedings 6, Vol II pp. 43-57, 1976.

Doyle, F.L., Karst hydrogeology. Geological Survey of Alberta 49 p, 1975.

Ford, Derek, C., Karst landforms of the First Canyon Area, South Nahanni River, Northwest Territories. Caves Karst 13(5) pp. 40-41, 1971 Abstract.

Ford, D.C., The extraordinary landscape of South Nahanni. Canadian Geographic Journal 94(1) pp. 56-63. 1977.

Abstract: This paper provides a general and "popular" description of the South Nahanni landscape. Several excellent photographs are included which provide an excellent overview of the area.

NTS Coverage:

Ford, D.C., G.A. Brook, The Nahanni North Karst; Northwest Territories of Canada. Congress International Speleological Proceedings 6, Vol II pp. 157-168, 1976.

Ford, D.C., J.F. Quinlan, Karst of Canada, Proceedings of the 12th International Karst Hydrology, Huntsville, Alabama, U.S.A. International Association of Hydrogeologists, University of Alabama, Huntsville, Ala. pp. 83-84, 1977.

Abstract: This paper presents a description of Karst in Canada and indicates that the Nahanni Karst development is restricted by permafrost.

NTS Coverage:

Ford, D.C., G.A. Brook, The South Nahanni Karst, Mackenzie Mountains, N.W.T. Canada. Geographical Society of America, 6(7) pp. 740-741, 1974.

Ford, D.C., Development of the Canyons of the South Nahanni River, N.W.T. Canadian Journal of Earth Science, 10(3) pp. 336-378, 1973.

Abstract: This paper presents a detailed description of the Nahanni Karst, paying particular attention to the development processes, the interpretation of the phases of cave development and to tectonic uplift.

NTS Coverage:

Schroeder, J., Découvertes de grottes dans le premier canyon de la Nahanni Sud, Territories du Nord-Ouest, Canada. La revue de géographie de Montréal, 26(4), pp. 433-446, 1972.

Abstract: This paper presents a description of the Karst formations found in Nahanni National Park. The emphasis of the paper is placed on determining the age of the features and on the fact that the Wisconsin glaciation did not cover the area.

NTS Coverage:

Schroeder, J., Les grottes de la Nahanni, Véritabe trésor géologique. Geoscience, 2, pp. 8-12, 1974.

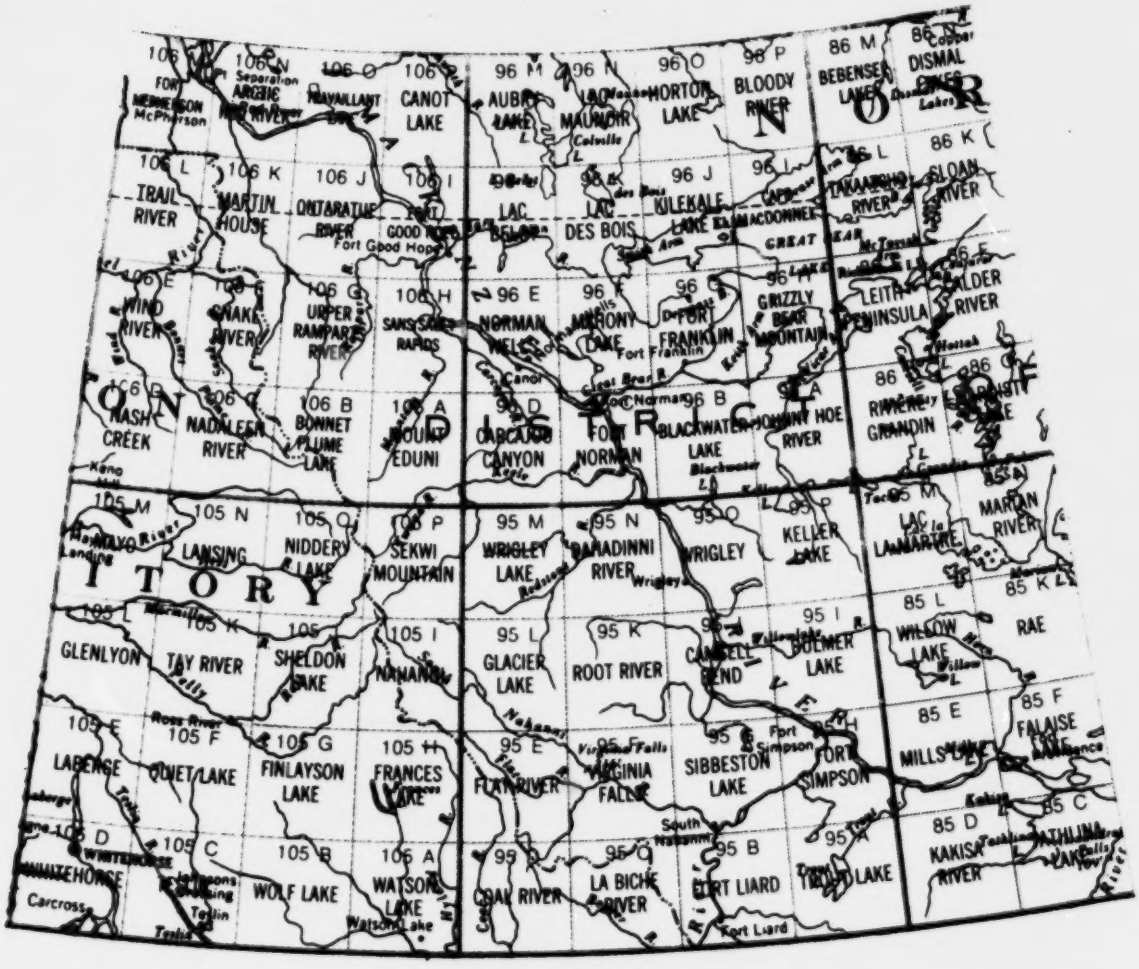
Schroeder, J., Développement de cavités d'origine mécanique dans un Karst froid; Nahanni, T.N.O. Canada. Dans Comptes rendus du colloque franco-belge de Karstologie appliqué. Liege, Belique mai 24-27, 1979.

Van Everdingen, R.O., Observations of Karst morphology and hydrology, Norman Wells (96E), Mahony Lake (96F) and Lac des Bois (96C) map areas, N.W.T. Department of Environment, Inland Waters Directorate, Rep. Series, No. 55, pp. 71-74, 1977.

SECTION D

GEOMORPHOLOGY - GLACIATION

GEOMORPHOLOGY - glaciation



NB coverage undetermined

Ford, D.C., Evidences of multiple glaciation in (South) Nahanni National Park, Mackenzie Mountains, Northwest Territories. Canadian Journal of Earth Sciences 13(10), pp. 1433-1445, 1976.

Abstract: Southern Nahanni National Park transects the southern Mackenzie Mountains from a position close to the continental divide to their eastern limit. In the context of glaciation it displays three distinct zones: 1) in the west, a cordilleran glacial zone with evidence of two or more phases of valley glaciation; 2) in the east, a Laurentide glacial zone with evidence of invasion by three successive Laurentide ice sheets; 3) a central unglaciated zone. Lacustrine deposits of two distinct phases extend into all three zones and are attributed to ice damming during the last two Laurentide glacial incursions.

NTS Coverage:

Harmon, R.S., D.C. Ford, H.P. Schwarcz, Interglacial chronology of the Rocky and Mackenzie mountains based upon ^{230}Th - ^{234}U dating of calcite speleothems. Canadian Journal of Earth Sciences, 14(11), pp. 2543-2552, 1977.

Abstract: Fifty-four ^{230}TH-^{234}U ages for 36 different speleothems from Mountain Karst areas of the Rocky and Mackenzie mountains cluster into five distinct age groups. Speleothems of the two oldest groups are particularly massive and ornamented. Several samples exhibit complex growth histories with successive periods of deposition separated by periods of interrupted growth and (or) erosion. Attributing episodes of deposition to interglacials and nondeposition to glacial periods, interglacials are recognized at (i) present to about 15ka; (ii) 90-150ka; (iii) 185-235ka; (iv) 275-320ka; and (v) greater than 350ka. These interglacials correlate well with periods of high sea stand and warm climate observed in the marine paleoclimate record. It appears that during the broad period 275-400ka interglacial conditions were strongly predominant in the mountains, producing effects suggestive of a "great interglacial".

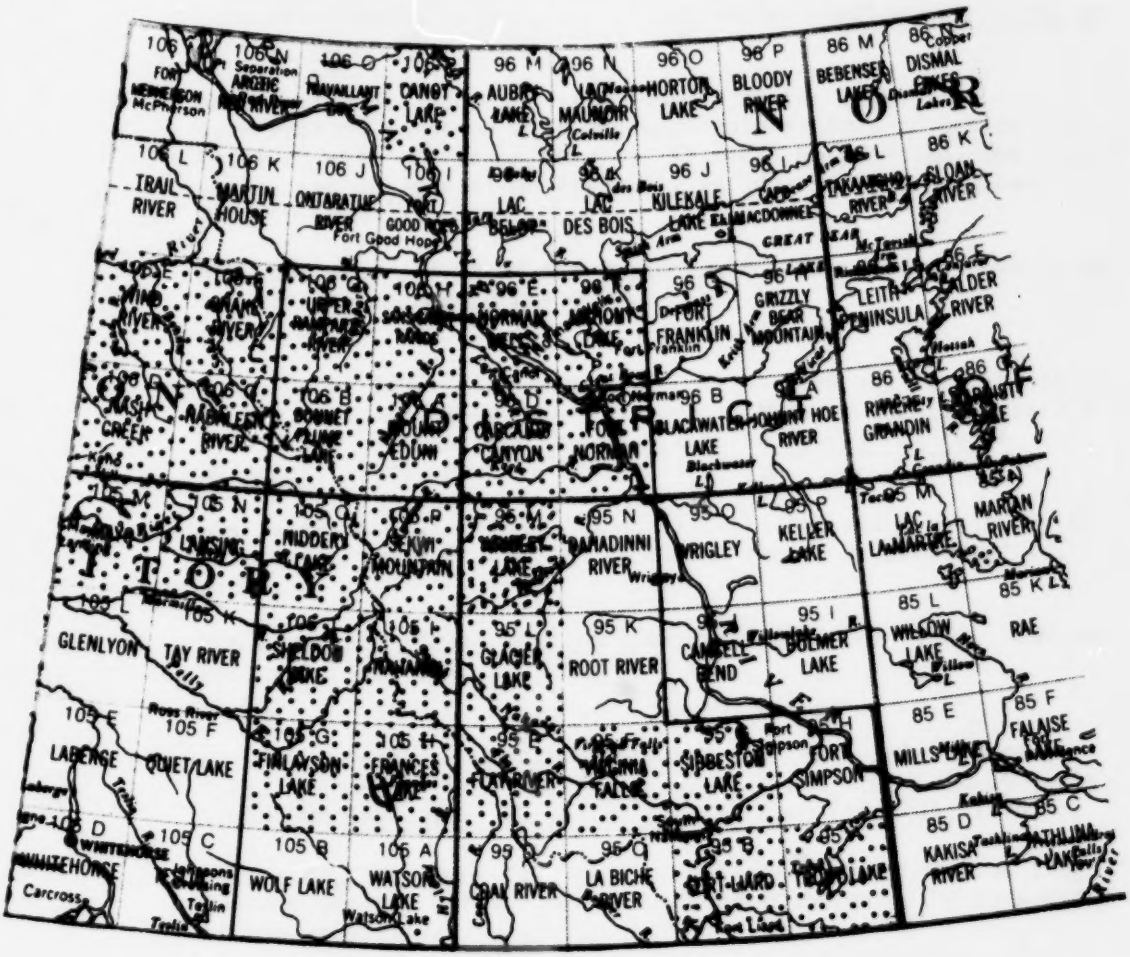
NTS Coverage:

Hawes, R.J., The limit of Cordilleran and Laurentide glaciers, southern part of the Canyon and Backbone ranges, Mackenzie Mountains, N.W.T. American Quarterary Association, National Conference, 166p, 1978.

SECTION E

GEOLOGY

GEOLOGY


106 M
106 N
106 O
106 P
96 M
96 N
96 O
96 P
86 M
86 N
DANOT LAKE
AUBREY LAKE
LAC MAUNOIR
HORTON LAKE
BLOODY RIVER
BEBENSER LAKE
DISMAL LAKES
106 L
106 K
106 J
106 I
96 L
96 K
96 J
96 I
86 L
86 K
TRAIL RIVER
MARTIN HOUSE
ONTARATUE RIVER
FORT GOOD HOPE
LAC DES BOIS
KILEKALE LAKE
TAKAANDHA RIVER
SLOAN RIVER
106 E
106 F
106 G
106 H
96 E
96 F
96 G
96 H
86 E
86 F
WIND RIVER
KEELE RIVER
UPPER RAMPARTS RIVER
NORMAN WELLS
NORMAN
MOUNT CLARE
FORT FRANKLIN
GRIZZLY BEAR MOUNTAIN
LEITH PENINSULA
CALDER RIVER
106 C
106 D
106 A
106 B
96 C
96 D
96 A
96 B
86 C
86 D
MUSKRAT CREEK
NAHANNI RIVER
BONNET PLUME LAKE
FORT NORMAN
CARCAJOU CANYON
BLACKWATER LAKE
HORNBY HOE RIVER
RIVIERE GRANDIN
105 M
105 N
105 O
105 P
95 M
95 N
95 O
95 P
85 M
85 N
LANSING
MIDDEN LAKE
SEKWI MOUNTAIN
BARADINNI RIVER
WRIGLEY
KELLER LAKE
LAC LA MARTRE
MARTIN RIVER
105 L
105 K
105 J
105 I
95 L
95 K
95 J
95 I
85 L
85 K
GLENLYON
TAY RIVER
SHELDON LAKE
GLACIER LAKE
ROOT RIVER
CAMSELL BEND
BOLMER LAKE
WILSON LAKE
RAE
105 E
105 F
105 G
105 H
95 E
95 F
95 G
95 H
85 E
85 F
LABERGE
QUIET LAKE
FINLAYSON LAKE
FRANCES LAKE
FAT RIVER
VIRGINIA FALLS
SIBBESTON LAKE
FORT SIMPSON
MILLS LAKE
FALAISE LAKE
105 D
105 C
105 B
105 A
95 D
95 C
95 B
95 A
85 D
85 C
WHITEHORSE
Carcross
WOLF LAKE
WATSON LAKE
CRAIG RIVER
LA BICHE RIVER
FORT LIARD
TROUT LAKE
KAKISA RIVER
ATHLINE LAKE

Aho, A.E., Prospecting and mineral development in Yukon, Western Miner Oil Review, 32(2), pp 31-35, 1962.

Abstract: The geology and development of the Tungsten (AMAX) claim is described. In addition, the high mineral potential of the Logan Mountain region is detailed.

NTS Coverage: 105H

Aitken, J.D., D.G. Cook, C.J. Yorath, Upper Ramparts River (106G) and Sans Sault Rapids (106H) map areas, District of Mackenzie. Geological Survey of Canada, Memoir 388, 48 p, 1982.

Abstract: This paper describes the physical features, stratigraphy and the economic geology of the Upper Ramparts River and Sans Sault Rapids map sheets. The report includes maps showing the generalized geology of parts of the Mackenzie Mountains, Northern Franklin Mountains, Peel Plains and the Peel Plateau, in addition to coloured geological maps (106G and 106H)

NTS Coverage: 106G and 106H

Aitken, J.D., D.G.F. Long, M.A. Semikhatov., Progress in Helikan Stratigraphy, Mackenzie Mountains. Geological Survey of Canada, Paper 78-1A, pp. 481-484, 1978

Abstract: Presents the preliminary results of the 1977 field examination of the Helikan Stratigraphy in the Mackenzie Mountains. All of the work was carried out in the Northwest Territories.

NTS Coverage: Lower Keele area, Sekwi River, Mountain River and Cache Creek areas.

Aitken, J.D., D.G. Cook, Carcajou Canyon map area, District of Mackenzie, Northwest Territories, Geological Survey of Canada Paper 74-B, 28p, 1974.

Abstract: This paper details the stratigraphy, structural and economic geology of the Carcajou Canyon area.

NTS Coverage: 96D

Aitken, J.D., R.W. Macqueen, J.L. Usher, Reconnaissance studies of Proterozoic and Cambrian stratigraphy, lower Mackenzie River area (operation Norman), District of Mackenzie. Geological Survey of Canada, Paper 73-9, 179p, 1973.

Abstract: This document is a summary of the authors' observations combined with regional observations of geologists involved with operation Norman. As might be expected, the report covers the geology of an extremely large area (greater than 375,000 sq km)

NTS Coverage: Areas of the Mackenzie Mountains Study covered by the report include 106P and 95L.

Armstrong, R.L., G.H. Eisbacher, P.D. Evans, Age and stratigraphic-tectonic significance of a Proterozoic diabase sheet, Mackenzie Mountains, Northwestern Canada, Canadian Journal of Earth Sciences, 19(2), pp. 316-323, 1982.

Abstract: A discussion of diabase sills and dykes which may be related to two volcanic events in the region is presented in this paper.

NTS Coverage: Deals with portions of 106A, 106B, 106G, 106H and 96C, 96D, 96E, 96F.

Blusson, S.L., Geology, Operation Stewart (Northern Selwyn Basin) Yukon and District of Mackenzie, N.W.T (106A,B,C, 105N,O) scale 1:250,000 Geological Survey of Canada, Open File 205, 1974.

Abstract: This open file consists of preliminary maps of the bedrock geology for the map sheets listed below. The resolution of the maps is very poor.

NTS Coverage: 106A, 106B, 106C, 105N, 105O.

Blusson, S.L., Geology of part of (the) Nadaleen River map area, Yukon and District of Mackenzie, N.W.T. (106C/6,7,10,11,13,14 and 15) scale 1:50,000, Geological Survey of Canada, Open File 206, 1974.

Abstract: Presents the preliminary results of the detailed mapping of the bedrock geology for the Nadaleen River map area.

NTS Coverage: 106C at a scale of 1:50,000.

Blusson, S.L., Sekwi Mountain map-area, Yukon Territory and District of Mackenzie. Geological Survey of Canada, Paper No. 71-72, 17 p, 1971., (coloured geological map 1:250,000).

Abstract: This paper is a report of field work undertaken in 1966 and 1967. The Sekwi Mountain map sheet represents a key area because of its high relief, high degree of exposure and its stratigraphic complexity. The physical features, general, structured and economic geology of the area are described.

NTS Coverage: 105P

Blusson, S.L. Selwyn Basin; Yukon and District of Mackenzie, Geological Survey of Canada, Paper 76-1A, pp. 131-132, 1976.

Abstract: Preliminary report of activities of 1975 field work which examined the general distribution of Ordovician-Silurian shale and chert facies betwen Ross River and Godlin Lakes.

NTS Coverage: The study area encompasses map sheets 105I, 105J, 105K, 105N, 1050 and 105P, however no detailed maps accompany the two page report.

Blusson, S.L., Geology and tungsten deposits near the headwaters of Flat River, Yukon Territory and Southwestern District of Mackenzie, Canada. Geological Survey of Canada, Paper 67-22, 77p, 1968.

Abstract: Describes the detailed geological investigations carried out in the Flat River area and the relationship of intrusive plutons to areas of high mineral potential.

NTS Coverage: Detailed geological mapping at a scale of 1:63,000 in the vicinity of the Tungsten Mine site. The report also includes mapped structural information in addition to sedimentation sequences. The detailed mapping covers a portion of 105H.

Brown, C.J., The geology of the Flat River Tungsten Deposits, Canadian Tungsten Mining Corporation Ltd. Canadian Metal Mining Bulletin, 54, pp. 510-513, 1961.

Abstract: A short description of the geology in the Tungsten vicinity which stresses the importance of granitic material intruding into Paleozoic deposits, thereby forming the regions' economic mineral potential.

NTS Coverage: Deals with the portion of sheet 105H in the area of the Tungsten townsite.

Carne, R.C., Geological setting and stratiform lead-zinc-barite mineralization, Tom Claims, Macmillan Pass, Yukon Territory, Department of Indian and Northern Affairs, 30p, 1979.

Abstract: Based on field investigations during 1976 and 1977, the report covers exploration history, the geological setting of the Macmillan Pass area, the geology, economic geology. A review of the genesis of stratiform barite and barite-lead-zinc deposits of the area including the Canol and Imperial Formations is also presented.

NTS Coverage: This report deals with a portion of 105P in the Macmillan Pass area.

Cook, D.G., Two stages of faulting, Virginia Falls map-area. District of Mackenzie. Geological Survey of Canada Paper 77-1A, pp113-115, 1977.

Abstract: Reports on a prominent set of north-northeast trending faults and a less prominent but significant set of northwest-trending faults which are located on the Virginia Falls map sheet.

NTS Coverage: Covers a portion of 95F.

Dawson, K.M., Regional metallogeny of the northern Codillera: recent stratiform base metal discoveries in the Yukon Territory and District of Mackenzie, Geological Survey of Canada, Paper 79-1A, pp. 375-376, 1979.

Abstract: A brief report of the examination in 1977 and 1978 of three stratiform base metal discoveries: the Woodside, the Maxi and a new occurrence in the Logan Mountains of southeastern Yukon and southwestern District of Mackenzie.

NTS Coverage:

Dick, L.A., Metamorphism and metasomatism at the Macmillan Pass tungsten deposit, Yukon and District of Mackenzie, Canada, Queen's University, Department of Geological Sciences, M.Sc. thesis, 1976.

Abstract: Examines the processes which resulted in the metamorphic and metasomatisc alteration of both calcarious and non-calcarious sediments in the Macmillan Pass tungsten deposit, the conditions under which these processes operated and their relationship to processes of ore formation.

NTS Coverage: Deals with the portion of 105P in the Vicinity of Macmillan Pass.

Douglas, R.J.W, D.K. Norris, Geology: Virginia Falls and Sibbeston Lake. Geological Survey of Canada, Maps 1377A, 1378A, 1976.

Abstract: Presents the geology of the study area.

NTS Coverage: 95F and 95G

Douglas, R.J.W., D.K. Norris, Virgina Falls and Sibbeston Lake map area, Northwest Territories, 95F and95G, Geological Survey of Canada Paper 60-19, 26p, 1960.

Abstract: This report describes the physical features, stratigraphy structural and economic geology of the Virginia Falls and Sibbeston Lake Map sheets.

NTS Coverage: A black and white geological map is produced at a scale of 1:250,000 for each NTS map sheet (95F and 95G).

Douglas, R.J.W., D.K. Norris, Fort Liard and La Biche Map areas, Northeast Territories and Yukon 95B and 95C Geological Survey of Canada, Paper 59-6, 23p, 1959.

Abstract: The geology of the Fort Liard and La Biche areas of the Northwest Territories and Yukon is described in detail. Included are descriptions of the physiography, general, structural and economic geology of those map areas.

NTS Coverage: Black and white geological maps have been produced for NTS sheets 95B and 95C.

Douglas, R.J.W., P. Hurker, D.K. Norris, Geology, southern Mackenzie Mountains Area, Yukon Territory and District of Mackenzie. Geological Survey, Survey Maps 1141A, (also in Bull, 95) 1963.

Abstract: This paper represents a preliminary examination of data collected by the author in the Redstone River area in an effort to establish the stratigraphy of the area.

NTS Coverage: No maps accompany the report, however the study area is located on parts of 95E, 95L and 95M.

Eisbacher, G.H., Sedimentary tectonics and glacial record in the Windemere Supergroup of the Mackenzie Mountains, Northern Canadian Cordillera, Geological Survey of Canada Paper 80-27, 40p, 1981.

Abstract: This paper presents a description of the sedimentary tectonics and glacial record in the Windemere Supergroup.

NTS Coverage: The study was concentrated in the area of Hayhook Lake located on mapsheet 95M.

Eisbacher, G.H., Redefinition and sub-division of the Rapitan Group, Mackenzie Mountains, Geological Survey of Canada, Paper 77-35 21p, 1978.

Abstract: This paper describes the subdivision of the Proterozoic Rapitan Group of the Mackenzie Mountains. The Sayunei Formation consists of green siltstone and argillete, interbedded with sharpclast-siltstones; the Shezal Formation consists of glacial marine diamicittes deposited in a shallow marine environment; the Twitya Formation is composed of shale and sandstone laid down on an unstable shelf and; the Keele Formation is an assemblage of cyclic carbonates and clastics deposited on shallow water banks.

NTS Coverage: Covers portions of NTS maps 116A, 106E, 106D, 106F, 106C, 106G, 106B, 105P, 95M and 95L. A major part of the paper deals with the area around Pulmer Lake (106A), the Twitya River (105P) and Hayhook Lake (95M).

Eisbacher, G.H., Proterzoic raptian group and related rocks, Redstone River Area, District of Mackenzie. Geological Survey of Canada Paper 76-1A, pp. 117-125, 1976.

Eisbacher, G.H., Tectno-stratigraphic framework of the Redstone Copper Belt, District of Mackenzie, Geological Survey of Canada, Paper 77-1A, pp. 229-234, 1974.

Abstract: In a preliminary progress report, the author presents some stratigraphic sequences through the Redstone and Copper Cap formations in the Mackenzie Mountain areas.

NTS Coverage: 95M

Fritz, W.H., Two Cambrian stratigraphic sections, eastern Nahanni map area, Mackenzie Mountains, District of Mackenzie, Geological Survey of Canada, Paper 81-1A, pp. 145-156, 1981.

Abstract: Describes two Cambrian stratigraphic sections located in the eastern Nahanni map sheet. The two new sections are described in detail and compared with similar sections described in an earlier publication.

NTS Coverage: Report contains diagrams of stratigraphic sequences, no geological mapping and no location maps. However the report covers a portion of 105I.

Fritz, W.H., Cambrian Stratigraphic Section between South Nahanni and Broken Skull Rivers, Southern Mackenzie Mountains. Geological Survey of Canada Paper 79-1B, pp. 121-125, 1979.

Abstract: Provides a description of two Cambrian stratigrapic sections in the area indicated in the title. The report contains no index map showing the location of the field work. One set of stratigraphic sections is included in the report.

NTS Coverage: Covers a portion of 105I.

Gabrielse, H., S.L. Blusson, A.B. Okulitch, Geology, Macmillan River, Yukon and Northwest Territories (105 and 115) scale 1:1,000,000, Geological Survey of Canada, Open File 209, 1974.

Abstract: Presents large scale mapping of the study area.

NTS Coverage: 105 and 115 at a scale of 1:1,000,000.

Gabrielse, H., S.L., Blusson, J.A. Roddick. Geology of Flat River, Glacier Lake and Wrigley Lake map-areas, District of Mackenzie and Yukon Territory. Part I: General Geology, Structural Geology and Economic Geology. Part II: Measured Sections; 2 vols. Canadian Geological Survey Memoir No. 366, 421 p, 1973.

Abstract: The geology of the Flat River, Glacier Lake and Wrigley Lake map sheets is described in detail by the authors. Included are details of physiography and glaciation, general geology, structural geology and economic geology. An extensive bibliography is also included.

NTS Coverage: Coloured geological maps have been produced for NTS sheets 95M, 95L and 95E.

Gabrielse, H., J.A. Roddick, S.L. Blusson, Flat River, Glacier Lake and Wrigley Lake, District of Mackenzie and Yukon Territory: 95E, 95L and 95M (Report and Maps). Canadian Geological Survey Paper 64-52, 30 p., 1965.

Abstract: The study area includes parts of the Mackenzie Mountains, Logan Mountains and the Hyland and Liard Plateaus. Well defined stratigraphic units of Ordovician and Devonian rocks, mainly carbonates are exposed throughout the northern and eastern parts of the area...Proterozoic strata exceeding 20,000 feet underlie the Paleozoic sequence.

NTS Coverage: Black and white geological maps have been produced for 95E, 95L and 95M.

Gordey, S.P, Stratigraphic cross-section, Selwyn Basin to Mackenzie Platform, Nahanni Map Area, Yukon Territory and District of Mackenzie Canadian Geological Survey, Paper 80-1A, pp.353-355, 1980.

Abstract: This report describes the stratigraphic relations of the northeastern platformal carbonate units examined as part of a regional mapping program refining the bedrock geology of the Nahanni map sheet.

NTS Coverage: The report deals with the west half of 105I.

Gordey, S.P., Stratigraphy of Southeastern Selwyn Basin in the Summit Lake Area, Yukon Territory and Norhtwest Territories. Geological Survey of Canada, Paper 79-1A, pp.13-16, 1979.

Abstract: This report describes the stratigraphy and structure of the Summit Lake area in the Nahanni map area. It also presents additional information from the Mackenzie Mountains southwesterly to the Selwyn Basin.

NTS Coverage: Deals with a portion of 105I.

Gordey, S.P., D.J. Templeman-Kluit., Stragetic and structural studies in the Pelly Mountains, Yukon Territory. Geological Survey of Canada, Paper 76-1B, pp.1-5, 1976.

Abstract: Reports on the detailed field work carried out in part of the Finlayson Lake area as part of a broader study of the stratigraphy and structure of the Pelly Mountains.

NTS Coverage: Deals with 105G.

Gordey, S.P., D. Wood, R.G. Anderson, Stratigraphic framework of southeastern Selwyn Basin, Nahanni map ara, Yukon Territory and District of Mackenzie. Geological Survey of Canada, Paper 81-1A, pp. 395-398, 1981.

Abstract: This paper presents a summary of the bedrock geology including complete descriptions of stratigraphy and structure of the Nahanni area.

NTS Coverage: 105I.

Grun, L.H., J.A. Roddick, S.L. Blusson, Geology, Nahanni district of Mackenzie and Yukon Territory. Geological Survey of Canada, Preliminary Series, Map No. 8-1967. 1968.

Helmstardt, H., G.H. Eisbacher, J.A. McGregor, Copper mineralization near an intra-Raption unconformity. Nite copper prospect, Mackenzie Mountains, Northwest Territories, Canada. Canadian Journal of Earth Sciences 16 pp. 50-59, 1979.

Jefferson, C.W., Stratigraphy and sedimentology, Upper Proterozoic Redstone copper belt, Mackenzie Mountains, N.W.T. A preliminary report. Mineral Industry Report 1975, Department of Indian and Northern Affairs, EGS 1978-5 pp. 157-169, 1978.

Krause, F.F. and A.E. Oldershaw, Stratigraphy and sedimentation of the Sekwi Formation (lower Cambrian) in the Sayunei Range of the Mackenzie Mountains, Norhtwest Territories. Geological Association of Canada - Mineral Association of Canada, Joint Annual Meeting, Vol 1, p. 55p., 1976.

Lauznicka, P., Geology and Mineralization in the Delores Creek Area, Bonnet Plume Range, Yukon Territory. Geological Survey of Canada, Paper 77-1A, pp. 435-439, 1977.

Abstract: Describes the stratigraphic sequences in the Dolores Creek area. In addition, the geological setting and the economic geology of the area is briefly described.

NTS Coverage: The study covers a portion of 106C.

Lenz, A.C., Wenlockian Graptolite reference section, Clearwater Creek, Nahanni National Park, Northwest Territories, Canada. Canadian Journal of Earth Science, 17(8) pp. 1075-1086, 1980.

Abstract: A sequence of 20m of Wenlockian graptolite-bearing strata is described from southern Northwest Territories. The sequence is relatively rich in graptolites and represents the best Wenlockian graptolite interval yet known in the Canadian Cordillera.

NTS Coverage: The study area is located along Clearwater Creek, a tributary of the South Nahanni River.

Ludvigsen, R., Ordovician formations and faunas, southern Mackenzie Mountains. Canadian Journal of Earth Science 12(4) pp. 663-697, 1975.

Abstract: Describes the characteristics of geological formations in the Mackenzie Mountains with particular attention to fossilized fauna found there.

NTS Coverage:

Morris, D.K., W.S. Hopkins, The geology of the Bonnet Plume Basin, Yukon Territory, Geological Survey of Canada, Paper 76-8, 16p, 1977.

Abstract: Outlines the structural geology and geologic history of the Bonnet Plume Basin.

NTS Coverage: Presents the geology of map sheets 106B.

Morrow, D.W., The Prairie Creek Embayment and associated slope, shelf and basin deposits. Geological Survey of Canada, Paper 78-1A, pp. 361-370, 1978.

Abstract: This report describes and delineates a major north trending embayment which is filled with a distinctive suite of slope deposited sediments.

NTS Coverage: Covers a portion of 95F.

Morrow, D.W. Lower Paleozoic Stratigraphy; Southern Mackenzie Mountains, District of MacKenzie. Canadian geological Survey Paper 76-1A. pp. 467-469, 1976.

Abstract: Stratigraphic studies of lower Paleozoic units in the Southern Mackenzie Mountains are examined and described in this preliminary report.

NTS Coverage: 95F and 95G

Owen, E.B., Engineering geology investigations of dam sites in the Yukon and Northwest Territories. Canadian Geological Survey Papers 65-1, 1964.

Abstract:

NTS Coverage:

Smith, C.L., Geological setting of Janson and Tom deposits in the Macmillan Pass area, eastern Yukon, Geoscience Forum. 6p, Dec. 4, 1978.

Abstract: Outlines the principal geological events of the Jason and Tom deposits as well as the structure and description of the ore deposits and their potential.

NTS Coverage: Covers the portion of 105P in the Macmillan Pass area.

Wheeler, J.O., A geological reconnaissance of the northern Selwyn Mountains region, Yukon and Northwest Territory, Geological Survey of Canada, Paper 53-7, 1954.

Abstract: This paper describes the physiography, structural and economic geology of the Selwyn Region of the Mackenzie Mountains area. A preliminary sketch map accompanies the report.

NTS Coverage: Covers portions of 105O, 105N, 105M, 106B, 106C, 106D.

Yeo, G.M., Stratigraphy, sedimentation and geochemistry of the Rapitan group, Yukon and Northwest Territories, Canada. Geological Society of America, Abstracts with Programs, 9(6), March 1977, 779p., 1977.

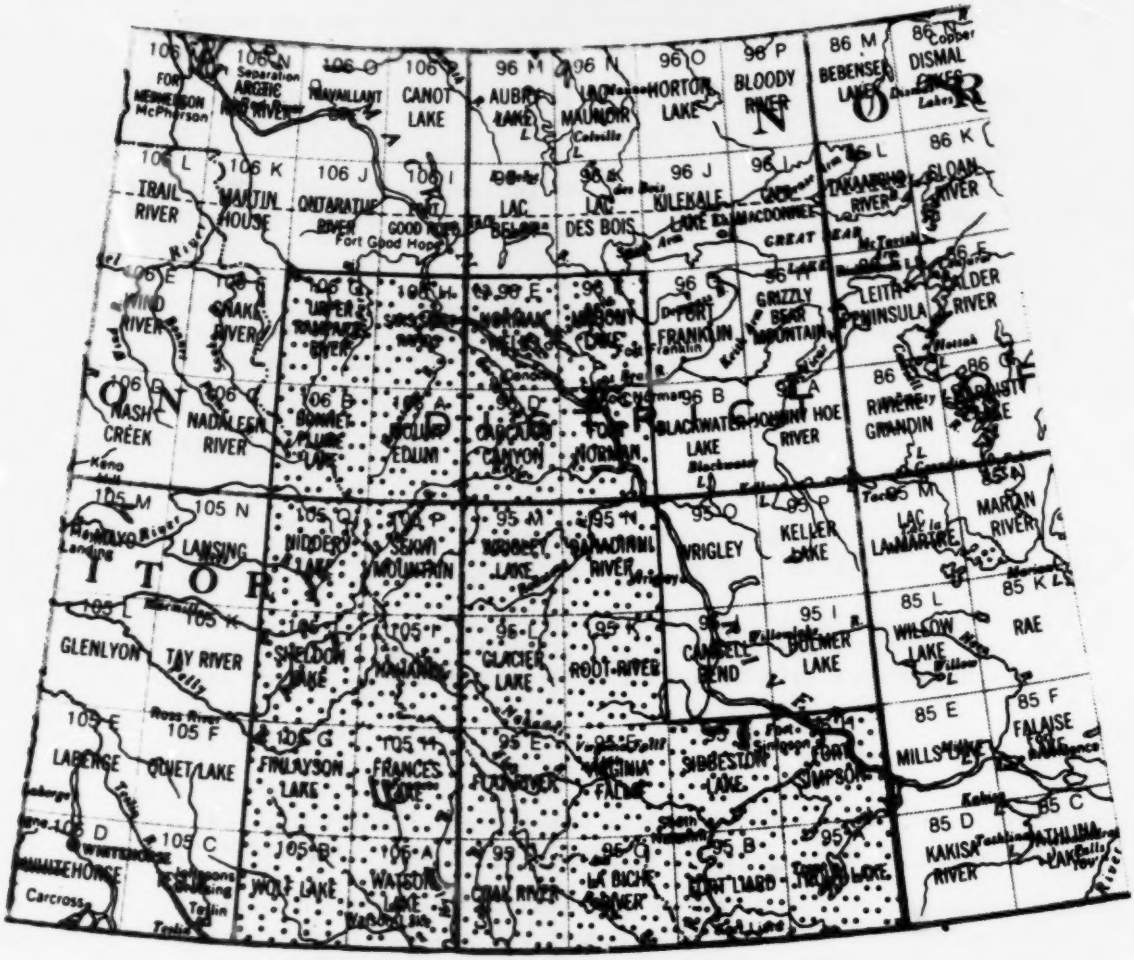
Abstract: Describes the stratigraphic and geochemistry of one of the best exposed late Proterozoic glacial-marine deposits located in the Mackenzie Mountains.

NTS Coverage:

SECTION F

SURFICIAL GEOLOGY

SURFICIAL GEOLOGY



Dyke, A., Surficial Geology of the Frances Lake Map Sheet, Yukon Territority.

Abstract: This document describes the surficial geology of the Frances Lake map sheet. At this writing the map is not available for distribution.

NTS Coverage: 105H

Energy, Mines and Resources, Terrain Classification and Sensitivity for the Upper Ramparts River, Sans Sault Rapids, Norman Wells, Mahony Lake, Fort Franklin, Carcajou Canyon and Blackwater Lake map sheets. Department of Indian and Northern Affiars, Geological Survey of Canada. Open File, 132, 1973.

Abstract:

NTS Coverage:

Hanley, P.T., S.C. Chatwin, O.L. Hughes, J. Pilon, Surficial Geology maps, N.W.T. (96E, 96F, 106P), scale 1:125,000, Geological Survey of Canada, Open file 294, 1975.

Hanley, P.T., O. Hughes, D.A. Hodgson, J. Pilon, Terrain maps - Mackenzie Valley, Maps 96C, 96D, 96E, 106H. (1:125,000). Surficial geology and geomorphology. Geological Survey of Canada. Open File 155, no date.

Hawes, R.J., Surficial Geology and Geomorphology, Fort Simpson, District of Mackenzie. Geological Survey of Canada. Map 3-1978, 1978.

Abstract: This 1:125,000 map describes the surficial geology and geomorphology of the Fort Simpson map area. Surficial geology was compiled from the work of Rutter et al (1972); the bedrock geology from R.J.W. Douglas 1958.

NTS Coverage: 95H.

Hawes, R.J., Surficial Geology and Geomorphology, Camsell Bend, District of Mackenzie. Geological Survey of Canada. Map 9-1978, 1978.

Abstract: This 1:125,000 map describes the surficial geology and geomorphology of the Camsell Bend map area and was compiled from work done by Rutter et al in 1971 and Douglas, 1961.

NTS Coverage: 95J

Hawes, R.J., Surficial Geology and Geomorphology, Bulmer Lake, District of Mackenzie. Geological Survey of Canada. Map 10-1978, 1978.

Abstract: This map produced at a scale of 1:125,000 describes the surficial geology and the geomorphology of the Bulmer Lake map area. Surficial information was compiled from the work of Rutter and Boydell (1972).

NTS Coverage: 95I

Hawes, R.J., Surficial Geology and Geomorphology, Wrigley, District of Mackenzie. Geological Survey of Canada. Map 13-1978, 1978.

Abstract: This 1:125,000 map describes the surficial geology and geomorphology of the Wrigley map area and was compiled from work done by Rutter and Boydell (1972) and Douglas and Morris (1962).

NTS Coverage: 95O

Hawes, R.J., Surficial Geology and Geomorphology, Trout Lake, District of Mackenzie. Geological Survey of Canada. Map 16-1978, 1978.

Abstract: This map, produced at a scale of 1:125,000 describes the surficial geology and geomorphology of the Trout Lake map sheet. Surficial geology information was compiled from the wrok of Rutter, Minning and Netterville undertaken in 1974.

NTS Coverage: 95A

Hawes, R.J., Surficial Geology and Geomorphology, Sibbeston Lake, District of Mackenzie. Geological Survey of Canada. Map 10-1978, 1978.

Abstract: This 1:125,000 map describes the surficial geology and, geomorphology of the Sibbeston Lake map area. Surficial information was taken from the work of Rutter and Boydell, (1972) while the bedrock geology was compiled from Douglas and Morris, 1960.

NTS Coverage: 95G.

Hawes, R.J., Surficial Geology and Geomorphology, Fort Liard, District of Mackenzie. Geological Survey of Canada. Map 11-1979, 1979.

Abstract: This 1:125,000 map describes the surficial geology and geomorphology of the Fort Liard map sheet. Surficial information was compiled from work of Rutter, Minning, Netterville and Boydell (1971) while geological data was taken from Douglas and Morris, 1959.

NTS Coverage: 95B

Hawes, R.J., Surficial Geology and Geomorphology, Root River, District of Mackenzie. Geological Survey of Canada. Map 12-1979 1979.

Abstract: This 1:125,000 map describes the surficial geology and the geomorphology for the Root River map sheet. Surficial information was taken from the work of Rutter and Boydell, 1972, while the bedrock geology was compiled from Douglas and Morris, 1961.

NTS Coverage: 95K

Hawes, R.J., Surficial Geology and Geomorphology, Dahadinni River, District of Mackenzie. Geological Survey of Canada. Map 18-1979, 1978.

Abstract: This 1:125,000 map describes the surficial geology and geomorphology of the Dahadinni River map sheet. Surficial information was compiled from work done by Rutter, Minning and Netterville, 1971, while geological data was taken from Douglas, 1958.

NTS Coverage: 95N

Jackson, L., Surficial Geology and Geomorphology, Nahinni Map Sheet, District of Mackenzie. Geological Survey of Canada. IN PRESS

Abstract: This documents presents the surficial geology for the Nahanni map sheet. At this writing, the map is not yet publically available.

NTS Coverage: 105I

Hughes, O.L., Surficial geology of northern Yukon Territory and northeastern District of Mackenzie. Geological Survey of Canada, Paper 69-36, 11p, 1972

Abstract: Discusses the Quarternary geology for the map area which is divided into three parts: a large area of plain and plateau north of the Mackenzie Mountains and last of the Richardson Mountains; that part of the area including Mackenzie, Wernecke, and Ogilvie mountains and the remaining unglaciated area. The three advances of valley glaciers are inferred from geomorphological evidence.

NTS Coverage: Covers the whole of the study area.

Klassen, R.W., Surficial geology, southern Yukon, Geological Survey of Canada. Open File 539, 1977.

Abstract: This document describes the surficial geology of the southern Yukon.

NTS Coverage: 105A and 105B.

Munroe, R.L., Surficial geology and geomorphology (permafrost and ground ice conditions), maps 85E, 95A, 95B, 95J, and 95H. Geological Survey of Canada. Open File 158., no date.

Munroe, R.L., Surficial Bedrock Geology, Terrain Classification and Sensitivity. Maps 106 I, J, K, M, N, O., Geological Survey of Canada. Open File 121, 1972.

Munroe, R.L., Terrain Maps, Mackenzie Valley. Terrain Classification and Sensitivity. Maps 85D, 95G, 95K, 95O, 95N, 95[illegible]; Geological Survey of Canada. Open File 131, no date.

Ricker, K.E., Surficial Geology of the Nadaleen River Map area, Yukon. Northwest Territories, un-edited manuscript. Geological Survey of Canada. Open File 207, 1974.

Abstract: This document presents a map of the surficial deposits found in the Nadaleen River map area. It deals primarily with ice contact features and glacier positions.

NTS Coverage: 106C.

Rutter, N.W., G.V. Minning, J.A. Netterville, Surficial geology and geomorphology, Dahadinni, District of Mackenzie. Geological Survey of Canada. Map 18, 1979.

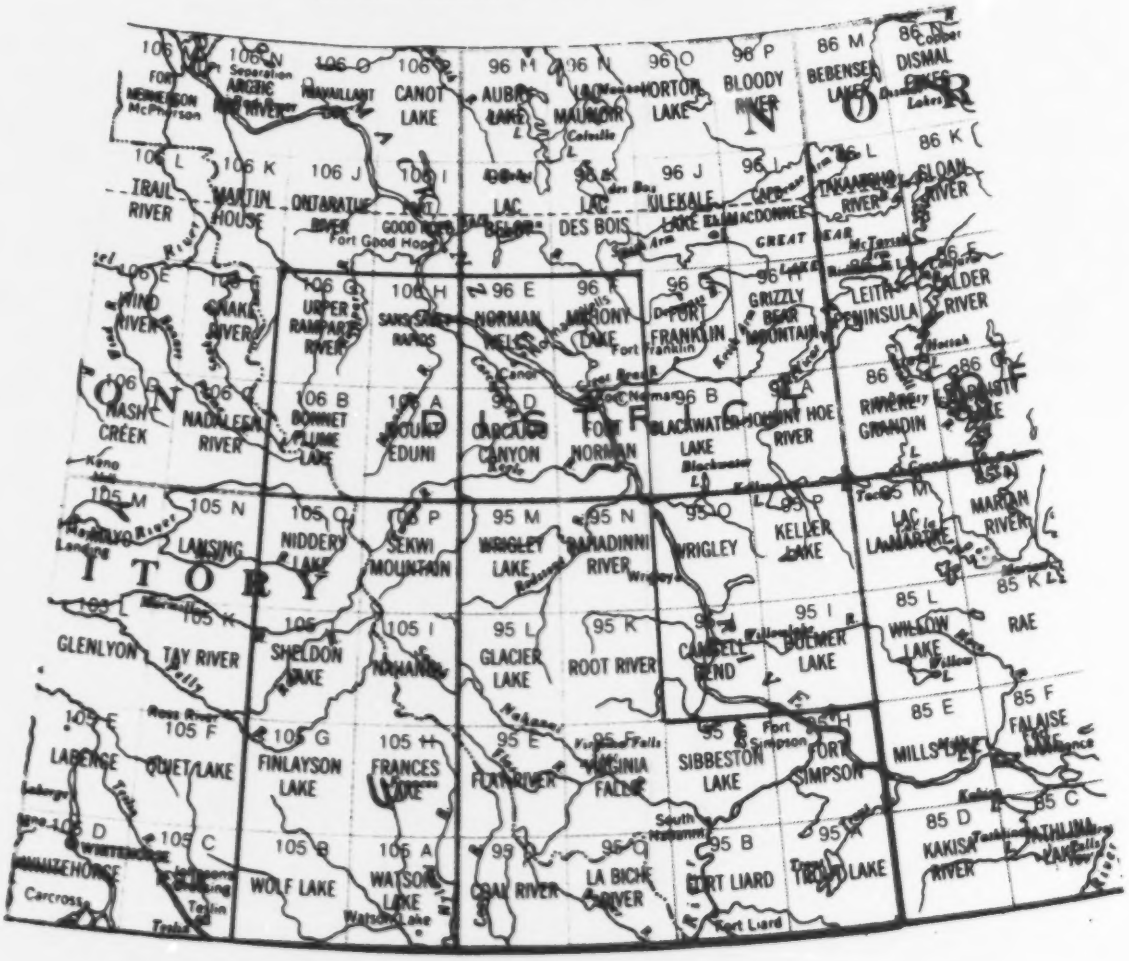
Abstract:

NTS Coverage: 95N

SECTION G

SURFICIAL GEOLOGY-SOILS

SURFICIAL GEOLOGY - soils



NB coverage undetermined

Rostad, H.P.W., L.M. Kozak, D.F. Actin, soil survey and land evaluation of the Yukon Territory. Saskatchewan Institute of Pedology Publications, 496 p, 1977.

Abstract: The report examines the soils of the Yukon Territory and assesses the agricultural capability of the soils.

Turnocai, C., Soils of the Mackenzie River Area, Canada Soil Survey, Winnipeg, Manitoba, 1972.

Abstract:

NTS Coverage:

University of British Columbia, Department of Soil Science, Final 1970 report on land use research, Department of Indian Affairs and Northern Development, 116 p, 1971.

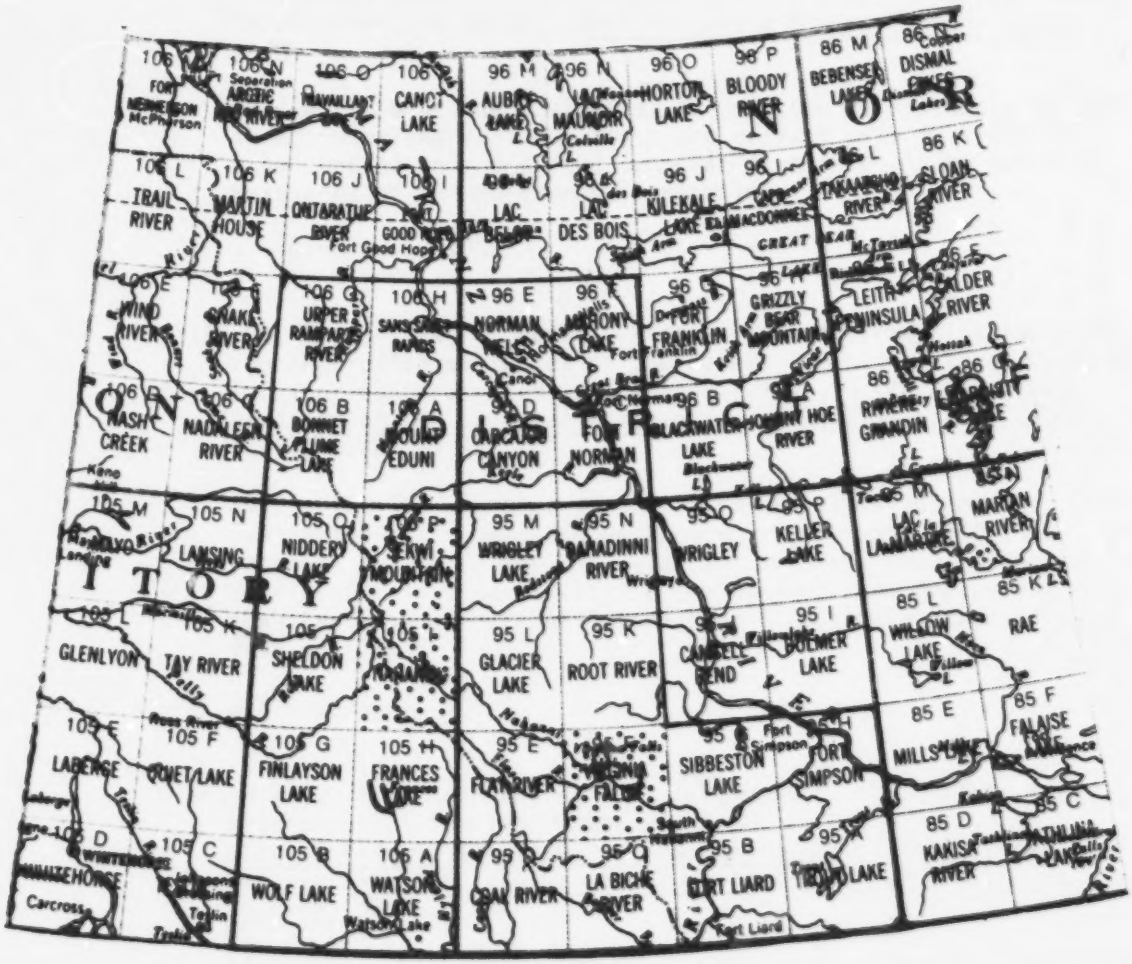
Abstract: Covers investigations of the area north of the 60th parallel in the area of Watson Lake and the Lower Liard. Information on the soils, surficial geology and vegetation with further information pertinent to environmental classification is included.

NTS Coverage:

SECTION H

WILDLIFE

WILDLIFE


106 M
106 N
106 O
106 P
CANOL LAKE
96 M
96 N
96 O
96 P
AUBREY LAKE
MAUNOIR
HORTON LAKE
BLOODY RIVER
86 M
86 N
BEBENSEE LAKES
DISMAL LAKES
106 L
106 K
106 J
106 I
TRAIL RIVER
MARTIN HOUSE
ONTARATUE RIVER
GOOD HOPE
96 K
96 J
96 I
LAC DES BOIS
KILEKALE LAKE
MACDONNEL
GREAT SLAVE LAKE
TAZIN RIVER
86 L
86 K
SLOAN RIVER
106 E
106 F
106 G
106 H
WIND RIVER
SNAKE RIVER
UPPER RAMPARTS RIVER
SANS SAULT RAPIDS
96 E
96 F
NORMAN WELLS
ANTHONY LAKE
96 G
FORT FRANKLIN
GRIZZLY BEAR MOUNTAIN
LEITH PENINSULA
ELDER RIVER
86 E
86 F
106 A
106 B
106 C
106 D
NASH CREEK
NAHANNI RIVER
BONNET PLUME LAKE
MOUNT EDUNI
96 D
CARCAJOU CANYON
FORT NORMAN
96 B
96 C
BLACKWATER LAKE
HORNBY HOE RIVER
RIVIERE GRANDIN
86 B
86 C
105 M
105 N
105 O
105 P
LANSING
NIDDERY LAKE
SEKWI MOUNTAIN
95 M
95 N
WRIGLEY LAKE
BARADINNI RIVER
95 O
WRIGLEY
95 P
KELLER LAKE
85 M
LAC LA MARTRE
MARTIN RIVER
85 K
105 K
105 L
GLENLYON
TAY RIVER
SHELDON LAKE
95 L
GLACIER LAKE
95 K
ROOT RIVER
CAMSELL BEND
95 I
BUEMER LAKE
85 L
WILLOW LAKE
RAE
105 E
105 F
105 G
105 H
LABERGE
QUIET LAKE
FINLAYSON LAKE
FRANCES LAKE
95 E
FLAT RIVER
FALAISE LAKE
SIBBESTON LAKE
FORT SIMPSON
85 E
MILLS LAKE
85 F
FALAISE LAKE
105 C
105 D
WHITEHORSE
Carcross
WOLF LAKE
105 B
106 A
WATSON LAKE
95 C
95 D
CRAN RIVER
LA BICHE RIVER
95 B
FORT LIARD
95 A
TROUT LAKE
85 C
85 D
KAKISA RIVER
ETHLINI LAKE

Beak Consultants Ltd., Prairie Creek Project, Vegetation and Wildlife Studies, 1981, prepared for Cadillac Explorations Ltd., Calgary, Alberta, 1981.

Abstract: This report provides information on wildlife and vegetation resources in the immediate area of the Prairie Creek mine site, Northwest Territories. Vegetation within the 209,000 hectare study area was mapped in a manner that would facilitate delineation of wildlife habitat. The report identifies 11 vegetation map units.

NTS Coverage: Site specific, Prairie Creek 95F.

Calif, G.W., Predicted Effect of (the) Canadian Arctic Pipline Project on the Porcupine Caribou Herd. Environmental Impact Assessment of the Position of the Mackenzie Gas Pipline from Alaska to Alberta, Vol. 4, pp. 101-120, Environmental Protection Board, Winnipeg, 1974.

Calif, G.W., C.M. Lortie, Towards an Environmental Impact Assessment of the Position of the Mackenzie Gas Pipeline from Alaska to Alberta. Appendix I: Wildlife, Interim Report No. 3, prepared for Canada Arctic Gas Study Ltd, Environmental Protection Board, Winnipeg, 1973.

Environcon Ltd., Baseline Wildlife investigations - impact and mitigation of road and/or airstrip construction and operation, Lened Property. Selwyn Mountains, N.W.T., Union Carbide Canada Ltd. 1981.

Abstract: This document presents the results of wildlife investigation carried out at and in the vicinity of the Lened Mine Site. The impact of the construction of access roads and an airstrip is evaluated.

NTS Coverage: Site specific southern half of 105I.

Fooks, C.E., R.W. Fyfe, J.B. Kemper, Highway-Raptor Interaction for the Mackenzie Highway, Canadian Wildlife Service. Department of Public Works, Consultation, MS - Report, 1974.

Fooks, R.W., J.B. Kemper, Peregrine Falcon Surveys of areas of conflict on the Mackenzie Highway Alignment, Canadian Wildlife Service Edmonton, 1975.

Fyfe, R.W., W.H. Prescott, Endangered Raptor Breeding Territories near the Mackenzie Highway Route and their protection, Canadian Wildlife Service, Edmonton, MS. Report; 1973.

Gill, D., Large Mammals of the Macmillan Pass Area, Northwest Territories and Yukon. AMAX Northwest Mining Company Ltd., 1978.

Abstract: Baseline ecological information is presented on Dall's sheep, woodland caribou, moose and grizzly bear in a 250 km^2 area centred on a proposed tungsten mine site in the Macmillan Pass area of the Northwest Territories.

NTS Coverage: 105P

Gill, D., P. Kershaw, K. Bodden, Winter Predatory-Prey Interactions in the Arctic/Alpine Tundra of the Selwyn Mountains, Yukon/Northwest Territories, presented at the Annual Meeting of the Western Division of the Canadian Association of Geographers. Calgary, 16-17, March 1979.

Abstract: Two examples of predatory-prey interactions (wolverine/dall sheep and wolf/moose) based upon 1976-1978 research on winter habitat selection by large mammals in the Macmillan Pass area illustrate how varying snow depths and densities may affect the interaction of northern predator and prey species.

NTS Coverage: 105P

Gunn, W.W.H., W.J. Richardson, R.E. Schwinsburg, T.O. Wright (eds.), Orithological Studies in the Mackenzie Valley; 1973. L.G.L. Ltd., Environmental Research Associates, Biological Repeat Series, Canada Arctic Gas Study Limited, Alaskan Arctic Gas Study Company, 327 p., 1974.

Abstract: This report describes species distribution, abundance, spawning, nursery habitats, movements, and migration timing of fish in the Mackenzie River.

NTS Coverage:

Kershaw, G.P., Resident wildlife responses to disturbances produced by the Land Crude Oil Pipeline Project, N.W.T. 1942-1945.

Abstract: This paper examines the long term effects of the development of the Land Pipeline on wildlife. In particular it identifies the species using the disturbances that have been abandoned without rehabilitation for over 35 years and determines if these disturbances have affected the degree of wildlife use in the area.

NTS Coverage: Along the Canol road.

Miller, S.J., N. Barichello, The grizzly bears of the Mackenzie Mountains, Northwest Territories. Department of Renewable Resources, Government of the Northwest Territories, unpublished report, 1979.

Abstract:

NTS Coverage:

Nielsen, P.L., Caribou report from 1973 field investigations, Mackenzie Mountains. Department of Renewable Resources, Government of the Northwest Territories, unpublished report, 1976.

Abstract:

NTS Coverage:

Rand, A.L., List of Yukon Birds and those of the Canol Road; National Museum of Canada, Bulletin 105, 1946.

Rand, A.L., Mammal investigations on the Canol Road, Yukon and Northwest Territories, 1944. National Museum of Canada, Bulletin 99, Bio Series 28, 52 p., 1945.

Sutter, R., Aerial Survey of bird populations along the proposed gas pipeline route and along the adjacent Norman Wells to Richards Island and In and Out Lake to Fort McPherson areas, Northwest Territories, June 2 - August 2, 1973. L.G.L. Ltd. Environmental Research Associates, Ornithological Studies in the Mackenzie Valley, 1973; Biological Report Series, for Canadian Arctic Gas Study Limited, Alaskan Arctic Gas Study Company, 1974.

Abstract: This survey provides a basis for comparison of bird populations along the pipeline route with populations on near-by wetlands.

NTS Coverage:

Scotter, G.W., White-tailed Deer and Mule Deer observations in Southwestern District of Mackenzie, N.W.T. Canadian Field Naturalist, 88(4) pp. 487-489, 1974.

Abstract: The author gives a detailed accounting of a series of 9 observations of white tailed deer and mule deer which occurred along the South Nahanni River.

NTS Coverage:

Simmons, N., Seasonal Distribution of Dall's Sheep in the Mackenzie Mountains, Northwest Territories. Department of Renewable Resources, N.W.T. file report, 48 p., 1981.

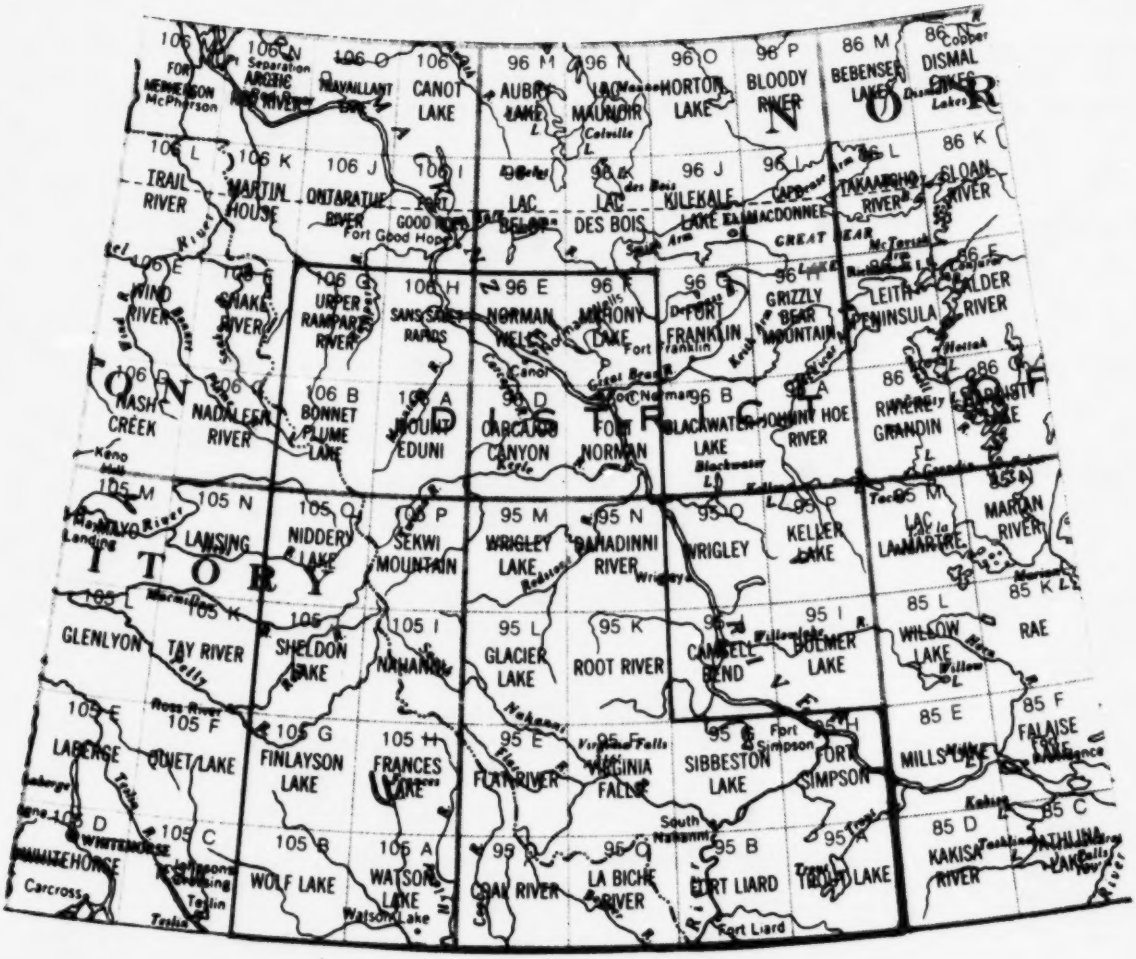
Simmons, N.W., A management plan for big game in the Mackenzie Mountains, N.W.T., Canadian Wildlife Service, unpublished report, 1970.

Simmons, N.W., Aerial Dall's Sheep and Woodland Caribou surveys in game management zone 12 and 19, Mackenzie Mountains, N.W.T., March 7-15, Canadian Wildlife Service, unpublished report, 1969.

SECTION I

VEGETATION

VEGETATION



NB coverage undetermined

Bird, C.D., J.W. Thomson, A.H. Marsh, G.W. Scotter, P.Y. Wong, Lichens from the area drained by the Peel and Mackenzie Rivers, Yukon and Northwest Territories, Canada, Canadian Journal of Biology 58:18 pp. 1947-1985, 1980.

Abstract: The distribution and general ecology of 249 macrollichen taxa is described.

NTS Coverage:

Cody, W.J., G.W. Scotter, S.S. Talbot, Additions to the vascular plant flora of Nahanni National Park, Northwest Territories. Environment Canada, Canadian Wildlife Service, 1979. (ISSN 0028-0798).

Abstract: This report adds considerable information to that already known about the flora of Nahanni National Park.

NTS Coverage:

Cody, W.J., A contribution to the knowledge of the flora of (the) southeastern Mackenzie District, N.W.T. The Canadian Field Naturalist 77, pp. 108-123, 1963.

Abstract: One hundred and twelve species and thirty families were collected in the Nahanni Range. In addition, 18 species of gramielea, 16 species cyperaceae and 13 species of crudiferae were contributed by the survey.

NTS Coverage:

Cody, W.J., Some rare plants from the Mackenzie Mountains, Mackenzie District, N.W.T. The Canadian Field Naturalist 77, pp. 226-228, 1963.

Abstract: Twenty-one rare plant species are identified.

Hirvonen, R.P. Report on forest conditions in the lower Liard River Basin, Yukon/Northwest Territories. Forest Management Institute Northern Services Report No. 3. 30 p., 1968.

Abstract: The results of forest resources survey of the Liard River Basin. Maps showing site topography, canopy density, species composition, forest canopy height.

Marsh, A.H., G.W. Scotter, Vegetation survey and development recommendations for the Rabbitkettle area, Nahanni National Park. Canadian Wildlife Service CWS-20-76 208 p., 1976.

Abstract: The historical geology and geomorphology of the area is described. Vegetation on the South Nahanni River near Rabbitkettle Lake and that near the hot springs is also described and mapped.

Marsh, A.H., G.W. Scotter, Vegetation survey and impact assessment of the Nahanni Hot Springs and Virginia Falls Areas, Nahanni National Park. Canadian Wildlife Service CWS-17-75 279 p., 1975.

Abstract: This report presents a description of the vegetation and its trafficability.

Porsild, A.E., Botany of the southeastern Yukon adjacent to the Canol Road. National Museum of Canada Bulletin 121, Bio Series 41, 1951.

Abstract: Presents the vascular flora along the Yukon section of the Canol Road.

Porsild, A.E., The alpine flora of the east slope of Mackenzie Mountains, Northwest Territories; National Museum of Canada Bulletin 101, 1945.

Raup, H.M., The Botany of southwestern Mackenzie. Lancaster Priss, Lancaster P.A., 1947.

Abstract:

NTS Coverage:

Scotter, G.W., Distribution of Pine (Pinus spp) in the South Nahanni and Flat Rivers Region, N.W.T. Canadaian Journal of Forest Research 4(4) pp. 555-557, 1974.

Scotter, G.W., W.J. Cody. Vascular plants of Nahanni National Park and Vicinity, Norhtwest Territories. Environment Canada, Canadian Wildlife Service, 1979. (ISSN 0028-0798).

Abstract: Reports 483 vascular plants from Nahanni National Park and regions.

Scotter, G.W., J.D. Henry, Vegetation, Wildlife and Recreational Assessment of Deadman Valley, Nahanni National Park, prepared for Parks Canada by C.W.S., Edmonton, 288 p., 1971.

Steere, W.C., G.W. Scotter, K. Holmen, Bryophytes of Nahanni National Park and vicinity, Northwest Territories, Canadian Journal of Botany, 55(13) pp.1741-1767, 1977.

Abstract: This paper reports 51 species of Hepaticae, 210 species of Musci, 261 species of bryophytes, of these, 89 species are new to District of MacKenzie and 11 species previously unreported form the N.W.T.

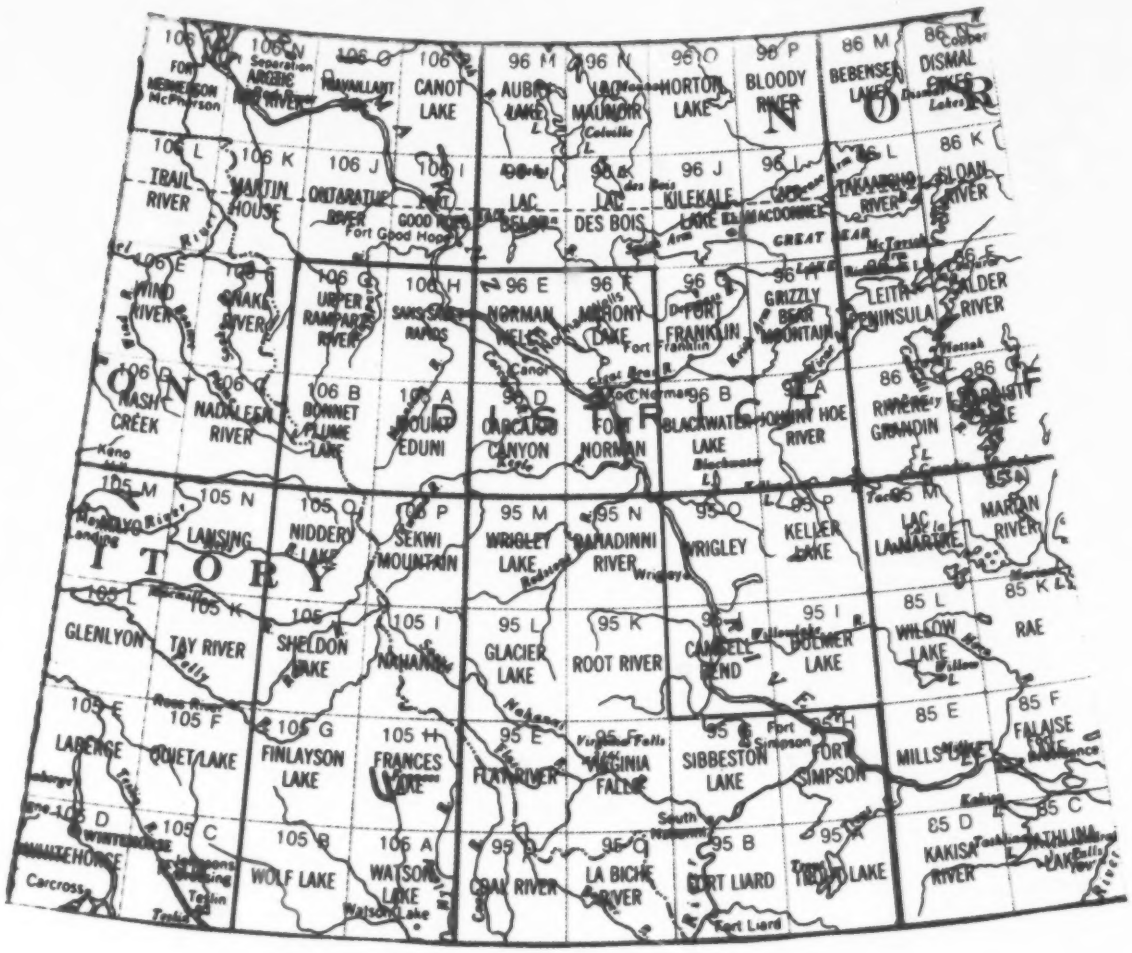
Vitt, D.H., D.G. Horton, Mosses of the Nahanni and Liard Ranges Area, Southwestern Northwest Territories, Canadian Journal of Botany, 57:3, pp. 269-283.

Abstract: This report lists 207 species and 2 varieties of species including 53 new species.

Wicstrom, R.D., Linnological survey of Nahanni National Park, 1975-1976, progress report. Canadian Wildlife Service. March 1977. 42 p.

Abstract: Inventories of aquatic vascular plants, algae, zooplakton, benthos, littoral communities, terrestrial stages of invertebrates and fish populations; butnymetric charts for all lakes, hydrographic, temperature and chemical measurements are presented in this report.

GENERAL



NB coverage undetermined

Beak Consultants Ltd., Northern linear facilities in Canada: a catalogue of environmental literature. Canada Environmental Protection Service, 342 p, 1979.

Cramp, F., R. Beadmore, I. Donaldson, Wild River Survey. National Historic Parks and Sites Branch, Parks Canada, 1971-1972.

Abstract: Descriptive reports prepared for northern rivers. Those in the study area include the Keele, Macmillan, Natla, Pelly, Peel, Ross and Stewart rivers.

Crampton, C.B., Analysis of synergistic systems for evaluating terrain sensitivity to disturbance of icy permafrost in the Mackenzie River Valley, Canada. Biuletyn peryglacjalny 28, pp.15-31, 1981.

Abstract: Presents a land classification for Mackenzie River Valley combined with analysis of synergistic systems used to quantify field units for comprehensive terrain evaluation.

Donaldson, I., Ross River Report - Wild Rivers Survey - 1971, Yukon Territory Parks Canada, Wild Rivers Survey, 1971.

Abstract: This paper presents a generalized description of the Ross River including vegetation and geographical features.

NTS Coverage:

Graham, D., Land and legends of the Nahanni. Canadian Geographical Journal, 84(6) pp. 188-195, 1972.

Abstract: Presents a general description of the landscape and some of the wildlife species found in Nahanni National Park.

NTS Coverage:

Simmons, N.M., G.W. Seatler, Nahanni - Magnificent National Park in the North, Canadian Wildlife Service, Nature Canada, 1(1), pp. 21-28, 1972.

Abstract: This paper presents a brief description of the scenery and an account of the flora, fauna, geology and cultural history of Nahanni National Park.

NTS Coverage: